



रेलवे भर्ती बोर्ड / RAILWAY RECRUITMENT BOARD

सी ई एन - ०३/२०२५ - CEN - 03/2025

Recruitment for Paramedical Categories



RRB Paramedical 2025

All Posts · Question Papers

English

7 Posts · 10 Papers (post + shift) · Official Answer Key

About this Compilation

This booklet contains every **English** question paper of the **RRB Paramedical 2025** (CEN 03/2025) examination held on 11, 12 and 13 March 2026 that our bank holds in **English** — 7 posts, 10 papers (one post in one shift each) — with the correct option marked as per the official answer key.

✓ Correct option (highlighted green)

1 of these 999 questions are not printed in English (1 in Telugu). Our bank holds no English version of them that carries a verified answer key (RRB set some of them in that language in every paper, others were not saved in English), so the stored version is printed instead, marked with a chip. Nothing is machine translated.

Partly saved papers: Radiographer X-Ray Technician (Date not recorded Shift not recorded): 99 of 100 questions saved. The missing questions were not in any saved response sheet.

How to use

- Use the **Index** page to jump directly to any set (clickable).
- Each set is one post's paper of one shift; questions appear section by section, numbered 1 onward.
- Diagram and wide-table questions appear at full width at the end of their section.
- The correct answer is highlighted in green with a tick.

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Index — All Sets (click to open)

Set 1 Dialysis Technician 11 Mar 2026 · 9:00 AM - 10:30 AM	Set 6 Nursing Superintendent 12 Mar 2026 · 4:30 PM - 6:00 PM
Set 2 Health & Malaria Inspector Grade II 11 Mar 2026 · 12:45 PM - 2:15 PM	Set 7 Pharmacist (Entry Grade) 13 Mar 2026 · 12:45 PM - 2:15 PM
Set 3 Lab Assistant Grade II 11 Mar 2026 · 4:30 PM - 6:00 PM	Set 8 Pharmacist (Entry Grade) 13 Mar 2026 · 4:30 PM - 6:00 PM
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General Ability

30 Questions • Answer Key

Q1 General Ability

Peninsular Plateau consists of which of the following two broad divisions?

- A. Northern Plains and Deccan Plateau
- B. Shevroy Hills and the Javadi Hills
- C. Central Highlands and Deccan Plateau ✓
- D. Aravalli and Vindhyan Ranges

Q2 General Ability

In a certain code language,
A + B means 'A is the mother of B',
A - B means 'A is the brother of B',
A # B means 'A is the daughter of B',
A % B means 'A is the father of B'.

Based on the above, how is N related to T if 'T % P % N # V'?

- A. Son's daughter ✓
- B. Son's wife
- C. Mother's father
- D. Father's mother

Q3 General Ability

In a division sum, the divisor is 12 times the quotient and 8 times the remainder. If the remainder is 39, what is the dividend?

- A. 8155
- B. 8154
- C. 8151 ✓
- D. 8148

Q4 General Ability

Increasing the number of turns in a solenoid while keeping current constant will ____.

- A. have no effect on the field
- B. reverse the field direction
- C. increase the magnetic field ✓
- D. decrease the magnetic field

Q5 General Ability

If the temperature of a metallic conductor increases, how does its resistivity change and why does this happen?

- A. Resistivity decreases because atoms vibrate less, aiding electron flow.
- B. Resistivity increases because atoms vibrate more, hindering electron flow. ✓
- C. Resistivity remains unchanged with temperature.
- D. Resistivity increases because electrons move faster, enhancing current.

Q6 General Ability

When ethanol is heated with excess concentrated sulfuric acid at 170 °C, what is the main product?

- A. Propanol
- B. Methanol
- C. Ethene ✓
- D. Ethanoic acid

Q7 General Ability

Which Article allows the President to recommend President's Rule in a state?

- A. Article 360
- B. Article 353
- C. Article 245
- D. Article 356 ✓

Q8 General Ability

In which Indian state is the Tehri Dam located?

- A. Punjab
- B. Uttarakhand ✓
- C. Bihar
- D. Madhya Pradesh



Q9 General Ability

In a convex mirror, the image distance is always:

- A. Zero
- B. Positive
- C. Infinite
- D. Negative

Q10 General Ability

Each of the letters in the word JETFOILS are arranged in alphabetical order. How many letters are there in the English alphabetical order between the letter which is second from the left and the one which is third from the right in the new letter-cluster thus formed?

- A. 8
- B. 6
- C. 5
- D. 7

Q11 General Ability

Find the median of the following data.
23, 17, 31, 12, 28, 33, 19, 25, 14, 22

- A. 21.5
- B. 24.5
- C. 23.5
- D. 22.5

Q12 General Ability

On which of the following dates in 2025 was National Unity Day observed?

- A. 31 October
- B. 24 October
- C. 18 October
- D. 21 October

Q13 General Ability

A water softener uses Na_2CO_3 . Knowing its formula unit mass helps in which aspect?

- A. Dosing amount
- B. Checking color
- C. Determining hardness
- D. Measuring temperature

Q14 General Ability

If 'A' stands for ' $\div$ ', 'B' stands for ' $\times$ ', 'C' stands for ' $+$ ' and 'D' stands for ' $-$ ', then what will come in place of the question mark (?) in the following equation?

$$5 \text{ B } 2 \text{ D } 12 \text{ A } 6 \text{ C } 2 = ?$$

- A. 12
- B. 10
- C. 8
- D. 14

Q15 General Ability

A teacher asks students to prepare a suspension in the lab. Which instruction should be followed?

- A. Mix alcohol with water
- B. Dissolve sugar in water
- C. Heat water to boiling
- D. Mix sand with water and stir

Q16 General Ability

Which of the following correctly matches the Gandharva sect with its associated function?

- A. Bandu sect – Music directors
- B. Bharat sect – Music directors
- C. Tandu sect – Dance directors
- D. Narad sect – Drama directors

Q17 General Ability

Six people, P, Q, R, S, T, and U are sitting in a row, facing north. Only two people sit to the left of R. Q sits second to the right of S. U is not an immediate neighbor of Q. T sits to the immediate left of P. Who is sitting at the extreme right end of the line?

- A. Q
- B. U
- C. P
- D. S



Q18 General Ability

Based on the English alphabetical order, three of the following four letter cluster pairs are alike in a certain way and thus form a group. Which is the one that does not belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster)

- A. AC-WG
- B. OQ-KU
- C. UW – QA
- D. TV – KX

**Q19 General Ability**

The strict reservoir protection rules framed by the Karnataka government in 2026 aim to conserve which reservoir?

- A. Hirakud Reservoir
- B. Idukki Reservoir
- C. Thippagondanahalli Reservoir
- D. Nagarjuna Sagar Reservoir

**Q20 General Ability**

Which of the following processes allows carbon dioxide to move out of a cell?

- A. Active transport
- B. Diffusion
- C. Endocytosis
- D. Osmosis

**Q21 General Ability**

Why is it important for DNA to be accompanied by a cellular apparatus in a reproducing cell during DNA copying?

- A. To help DNA avoid mutations
- B. To ensure energy is stored in the new cell
- C. To provide structural support to the DNA only
- D. To maintain life processes in the new cell

**Q22 General Ability**

India's first tempered glass manufacturing facility for mobile devices was inaugurated in 2025 in which of the following cities?

- A. Noida
- B. Surat
- C. Pune
- D. Bengaluru

**Q23 General Ability**

A and B complete a work together in 6 days. If A alone can do it in 30 days then, B alone can do two-third of the same work in _____ days.

- A. 10
- B. 20
- C. 15
- D. 5

**Q24 General Ability**

North Eastern Region District Sustainable Development Goal (SDG) Index and Dashboard is the collaborative effort of which of the following?

1. NITI Aayog
2. Ministry of Development of North Eastern Region (M/DoNER)
3. United Nations Development Programme (UNDP)

- A. Only 1 and 3
- B. Only 1 and 2
- C. Only 2 and 3
- D. 1, 2 and 3

**Q25 General Ability**

Which of the following quantities changes, when a constant force is applied to a body for some time?

- A. Weight only
- B. Density only
- C. Mass only
- D. Momentum only



Q26 General Ability

Which of the following leaders of the Indian National Movement was NOT associated with the Hindustan Socialist Republican Association (HSRA)?

- A. Bhagat Singh
- B. Mahatma Gandhi
- C. Batukeshwar Dutt
- D. Chandrasekhar Azad

Q27 General Ability

The _____ has the authority to punish for contempt of court in India.

- A. Parliament of India
- B. Supreme Court and High Courts
- C. President of India
- D. Lok Adalat

Q30 General Ability

A quadrilateral ABCD is cyclic (all four vertices lie on a circle). Its side lengths are: AB=5cm, BC=8cm, CD=13cm, DA=20cm. Find the area of quadrilateral ABCD.

- A. 84 cm²
- B. 90 cm²
- C. 96 cm²
- D. 92 cm²

Q28 General Ability

Akshat deposited a sum of ₹53625 at 20% rate of interest per annum, compounded annually. The total amount received by Akshat after 2 years is:

- A. ₹77521
- B. ₹77330
- C. ₹77220
- D. ₹76934

Q29 General Ability

Which of the following is a bacterial sexually transmitted disease?

- A. Chickenpox
- B. Warts
- C. Syphilis
- D. HIV-AIDS

Professional Ability

70 Questions • Answer Key

Q31 Professional Ability

What is diffusion?

- A. The movement of particles from high concentration to low concentration
- B. The movement of particles due to electrical forces
- C. The movement of particles against gravity
- D. The movement of particles from low concentration to high concentration

Q32 Professional Ability

Which scenario could trigger a conductivity alarm on a hemodialysis machine?

- A. Bloodline kinking
- B. Improper mixing of dialysate solution
- C. Air bubbles in the venous chamber
- D. High venous pressure

Q33 Professional Ability

Which compartment contains the highest percentage of total body water in the human body?

- A. Plasma
- B. Intracellular fluid
- C. Transcellular fluid
- D. Interstitial fluid

Q34 Professional Ability

Which of the following best describes the main difference between benign and malignant tumors in tumor classification?

- A. Malignant tumors do not spread to other organs.
- B. Benign tumors invade surrounding tissues.
- C. Malignant tumors grow slowly and remain encapsulated.
- D. Benign tumors remain localized and do not metastasize.



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Q35 Professional Ability

What happens to an enzyme after it catalyzes a reaction?

- A. It loses all activity
- B. Enzymes are unchanged and reusable ✓
- C. It becomes the product
- D. It is broken down

Q36 Professional Ability

During peritoneal dialysis, how is the dialysate solution introduced into the peritoneal cavity?

- A. Intravenously
- B. Subcutaneously
- C. Intraperitoneal via a catheter ✓
- D. Orally

Q37 Professional Ability

A 65-year-old male with hepatic failure and moderate renal impairment requires pain control. Which medication should be avoided to prevent risk of accumulation and toxicity?

- A. Diclofenac
- B. Ibuprofen
- C. Paracetamol
- D. Morphine ✓

Q38 Professional Ability

A patient receiving low calcium dialysate begins to show signs of muscle twitching. What should be considered?

- A. Low sodium levels
- B. Low calcium levels ✓
- C. High magnesium levels
- D. High potassium levels

Q39 Professional Ability

Which of the following is a type of dialyzer commonly used in clinical practice?

- A. Platelet membrane dialyzer
- B. Hollow fiber dialyzer ✓
- C. Bronchial dialyzer
- D. Copper coil dialyzer

Q40 Professional Ability

What is a common cause of blood clotting in hemodialysis (HD) circuits?

- A. Low blood pressure
- B. Inadequate anticoagulation ✓
- C. High dialysate flow rate
- D. Overhydration

Q41 Professional Ability

When reusing a dialyzer, which of the following conditions requires the dialyzer to be permanently discarded?

- A. When the FBV decreases by more than 80% of the original volume ✓
- B. When the dialysate temperature is below 36°C
- C. When the transmembrane pressure increases slightly during treatment
- D. When the dialyzer appears clean after reprocessing

Q42 Professional Ability

Which of the following best illustrates an agonist's role at a receptor site in pharmacodynamics?

- A. It inhibits the receptor to block a response.
- B. It activates the receptor to produce a response. ✓
- C. It blocks enzymes from breaking down drugs.
- D. It prevents the metabolism of the drug.

Q43 Professional Ability

A 35-year-old patient presents with polyuria, mild proteinuria, and impaired urine-concentrating ability. Renal biopsy shows interstitial fibrosis and tubular atrophy. Based on this, what is the most likely diagnosis?

- A. Renal artery stenosis
- B. Nephrotic syndrome
- C. Acute glomerulonephritis
- D. Chronic tubulointerstitial nephritis ✓

Q44 Professional Ability

Which of the following is a common route of administration for heparin?

- A. Inhalation
- B. Oral ingestion
- C. Intravenous injection ✓
- D. Topical application



Q45 Professional Ability

Which of the following is a common cause of chest pain in hemodialysis (HD) patients?

A. Pericarditis



B. Peptic ulcer

C. Asthma

D. Migraine

Q46 Professional Ability

Which anticoagulant is most commonly used during hemodialysis to prevent clotting in the extracorporeal circuit?

A. Clopidogrel

B. Heparin



C. Aspirin

D. Warfarin

Q47 Professional Ability

Which congenital abnormality is most likely to lead to recurrent urinary tract infections in children?

A. Medullary sponge kidney

B. Renal agenesis

C. Vesicoureteral reflux



D. Wilms tumor

Q48 Professional Ability

If the fiber bundle volume of a reused dialyzer falls below 80% of its original volume, what is the appropriate action

A. Continue using until symptoms appear

B. Increase dialysate flow rate

C. Discontinue use and replace the dialyzer



D. Rinse with hypertonic solution

Q49 Professional Ability

When should a dialyzer be discarded according to standard protocols?

A. When it shows signs of wear or damage



B. After every single use regardless of condition

C. Only when visibly contaminated

D. After a fixed number of uses regardless of condition

Q50 Professional Ability

Which of the following is a correct clinical application of creatinine molecular weight?

A. Estimating liver enzyme activity

B. Calculating glomerular filtration rate (GFR)



C. Determining hemoglobin levels

D. Assessing blood oxygen saturation

Q51 Professional Ability

Which is the best disinfectant for surface cleaning in HD machine?

A. Glutaraldehyde

B. Formalin

C. Saline

D. Sodium hypochlorite



Q52 Professional Ability

Which condition is most likely to cause 'conductive high' in biological tissues?

A. Increased ion concentration



B. Low glucose availability

C. Reduced oxygen levels

D. Dehydration

Q53 Professional Ability

When should hand hygiene be performed during patient care?

A. Only after patient contact

B. Only before patient contact

C. At the beginning and end of the workday

D. Before and after patient contact



Q54 Professional Ability

A patient is exposed to high altitude for several days. Which of the following physiological changes in the respiratory system is most likely to occur to compensate for decreased oxygen availability?

A. Lower pulmonary blood flow

B. Increased tidal volume



C. Decreased respiratory rate

D. Reduced oxygen diffusion capacity



Q55 Professional Ability

Reuse of dialyzers can be done safely if?

- A. Dialyzer bundle volume is not measured
- B. Only urea clearance is high
- C. Dialysate is acidic
- D. No residual blood remains and disinfection is complete**

Q56 Professional Ability

Which of the following is a common consequence of renal failure?

- A. Increased urine output
- B. Accumulation of waste products in the blood**
- C. Improved kidney filtration
- D. Decreased blood pressure

Q57 Professional Ability

Which of the following is an endocrine gland?

- A. Mammary gland
- B. Thyroid gland**
- C. Salivary gland
- D. Sweat gland

Q58 Professional Ability

In patients with renal failure, which medication practice is essential to prevent drug toxicity?

- A. Avoiding all oral medications
- B. Using the same dose as in normal patients
- C. Adjusting drug dose according to renal function**
- D. Giving drugs only after dialysis

Q59 Professional Ability

Which of the following is a common contraindication for anticoagulation therapy?

- A. Mild headache
- B. Active bleeding**
- C. Low-grade fever
- D. Mild dehydration

Q60 Professional Ability

What is the recommended practice for the disposal of sharps such as needles used in dialysis?

- A. Dispose in puncture-proof sharps container**
- B. Crush and throw in general bin
- C. Place directly into yellow bag
- D. Disinfect and reuse

Q61 Professional Ability

What is the most frequent type of anemia seen in Hemodialysis patients?

- A. Sickle cell anemia
- B. Hemolytic anemia
- C. Aplastic anemia
- D. Iron deficiency anemia**

Q62 Professional Ability

A patient undergoing haemodialysis tests positive for Hepatitis B surface antigen (HBsAg). Which is the most appropriate action to prevent cross-infection in the unit?

- A. Dialyze the patient in a separate room using dedicated equipment**
- B. Clean shared equipment thoroughly after each use
- C. Assign dedicated staff for the patient, but use shared equipment
- D. Apply universal precautions for all patients

Q63 Professional Ability

Which test is commonly used to check for residual disinfectants in the dialysate pathway after disinfection?

- A. Residual chlorine test**
- B. Blood urea test
- C. Electrolyte test
- D. Hematocrit test

Q64 Professional Ability

What is the first step in responding to an alarm from a patient monitor in a healthcare setting?

- A. Ignore the alarm if it seems unimportant.
- B. Check the patient's condition immediately.**
- C. Adjust the monitor settings.
- D. Reset the alarm without assessment.



Q65 Professional Ability

Water movement in dialysis primarily occurs because of?

- A. Active pumping
- B. Membrane rupture
- C. Cell division
- D. Osmotic pressure



Q66 Professional Ability

When evaluating the use of low calcium dialysate, which potential long-term complication should clinicians monitor for most closely?

- A. Improved vascular health
- B. Enhanced muscle strength
- C. Prevention of hypertension
- D. Development of bone demineralization



Q67 Professional Ability

If a person is exercising vigorously in a hot climate, which combination of mechanisms does the body utilize to prevent overheating?

- A. Vasoconstriction and decreased metabolic rate
- B. Sweating and vasoconstriction
- C. Shivering and vasodilation
- D. Sweating and vasodilation



Q68 Professional Ability

Which of the following is a recommended immediate action if a patient experiences muscle cramps during hemodialysis?

- A. Lower blood flow rate
- B. Increase dialysate temperature
- C. Stop anticoagulants
- D. Reduce ultrafiltration rate



Q69 Professional Ability

What safety feature automatically clamps the line and stops the blood pump if air is detected?

- A. Deaeration Chamber
- B. Blood leak detector
- C. Air detector with venous clamp
- D. Venous pressure sensor



Q70 Professional Ability

Which of the following is classified as a long bone?

- A. Patella
- B. Femur
- C. Vertebra
- D. Sternum



Q71 Professional Ability

Before reusing a dialyzer, what is the first step in the manual reuse process?

- A. Adding disinfectant
- B. Reconnecting to the patient
- C. Visual inspection for damage
- D. Rinsing with acid



Q72 Professional Ability

Which of the following can result from incorrect dialysate conductivity (either too low or too high) during hemodialysis?

- A. Patient may develop electrolyte imbalances and complications
- B. Dialyzer will automatically self-clean
- C. Dialysate will turn cloudy
- D. Blood flow will increase on its own



Q73 Professional Ability

Which factor is most critical in ensuring the proper mixing of water and dialysate?

- A. Sterilizing the solution
- B. Adding electrolytes manually
- C. Using distilled water
- D. Maintaining correct proportions



Q74 Professional Ability

A patient on dialysis has a history of heparin-induced thrombocytopenia. Which anticoagulation strategy is most appropriate?

- A. Switch to rigid heparinization
- B. Increase the dose of regular heparin
- C. Use low molecular weight heparin (LMWH) or a heparin-free protocol
- D. Continue regular heparin at the same dose



Q75 Professional Ability

Which of the following is a key blood-side parameter continuously monitored during hemodialysis?

- A. Dialysate flow temperature
- B. Ultrafiltration rate only
- C. Arterial and venous pressure ✓
- D. Dialysate conductivity

Q76 Professional Ability

Blood leak detector alarm is triggered by?

- A. Presence of blood in dialysate ✓
- B. High ultrafiltration
- C. Low dialysate flow
- D. Low heparin level

Q77 Professional Ability

Which of the following best defines osmosis?

- A. Net movement of solvent molecules through a semipermeable membrane from lower to higher solute concentration ✓
- B. Movement of ions against their concentration gradient using energy
- C. Diffusion of gases across a permeable membrane
- D. Movement of solute molecules from higher to lower concentration

Q78 Professional Ability

Which of the following is a primary function of lipids in the human body?

- A. Store energy ✓
- B. Form antibodies
- C. Facilitate nerve impulses
- D. Provide genetic information

Q79 Professional Ability

The juxtaglomerular apparatus regulates?

- A. Blood pressure ✓
- B. Blood glucose
- C. Bile production
- D. Urine color

Q80 Professional Ability

What is the main process that describes the movement of water across a semipermeable membrane from a region of low solute concentration to high solute concentration?

- A. Active transport
- B. Osmosis ✓
- C. Filtration
- D. Diffusion

Q81 Professional Ability

Which fluid is commonly used to prime the CRRT circuit?

- A. Sterile water
- B. Dextrose 5%
- C. Normal saline ✓
- D. Lactated Ringer's

Q82 Professional Ability

Which of the following best describes the correct procedure for cleaning dialysis machine surfaces?

- A. Cleaning only visible stains with sterile water
- B. Weekly cleaning using detergent
- C. Wiping with a dry cloth after every 2 shifts
- D. Using disinfectant wipes or approved solution after each dialysis session ✓

Q83 Professional Ability

Why is routine hepatitis B vaccination recommended for patients and staff in dialysis units?

- A. To reduce the risk of waterborne disease
- B. To protect against bacterial transmission
- C. To improve immune system function and protect against bloodborne infection ✓
- D. To avoid respiratory infection

Q84 Professional Ability

Which of the following laboratory tests is commonly used to monitor anemia in dialysis patients?

- A. Serum potassium
- B. Creatinine
- C. Hemoglobin (Hb) ✓
- D. Blood glucose



Q85 Professional Ability

Which part of the brain is primarily responsible for regulating body temperature?

A. Hypothalamus



B. Medulla oblongata

C. Pituitary gland

D. Cerebellum

Q86 Professional Ability

CRRT is usually done in/at:

A. home

B. the ICU



C. the OPD

D. the dialysis center

Q87 Professional Ability

Which of the following is a common contraindication for using anticoagulant during dialysis?

A. Recent ischemic stroke

B. Active gastrointestinal bleeding



C. Controlled hypertension

D. Mild anemia

Q88 Professional Ability

Which statement best describes the body composition of fluids?

A. Most body fluid is outside the body

B. Most body fluid is in the blood vessels

C. Most body fluid is found inside the cells



D. Most body fluid is in the stomach

Q89 Professional Ability

Which of the following is a key component of dialysate used in hemodialysis?

A. Electrolytes



B. Proteins

C. Antibodies

D. Lipids

Q90 Professional Ability

Why is it important to regularly check haemoglobin levels in dialysis patients?

A. To evaluate liver enzyme levels

B. To detect and manage anemia, a common complication



C. To monitor blood sugar control

D. To assess kidney filtration rate directly

Q91 Professional Ability

What is the primary reason for surface cleaning of dialysis machines after each session?

A. To maintain machine temperature

B. To prevent corrosion of machine parts

C. To reduce the risk of cross-contamination between patients



D. To increase machine efficiency

Q92 Professional Ability

A patient on CAPD complains of abdominal fullness and reduced dialysate drainage, but shows no fever or signs of infection. What is the most probable complication?

A. Tunnel Infection

B. Catheter migration



C. Hyperglycemia

D. Dialysate Leak

Q93 Professional Ability

Why is bicarbonate included in regular HD dialysate solutions?

A. To correct metabolic acidosis in patients undergoing dialysis



B. To enhance removal of proteins

C. To increase blood calcium levels

D. To reduce blood glucose levels

Q94 Professional Ability

Which of the following is most commonly monitored during regular hemodialysis (HD) sessions?

A. Blood glucose

B. Urine output

C. Blood pressure



D. Serum calcium



Q95 Professional Ability

Which of the following statements best explains why peracetic acid is used for disinfection in hemodialysis machines despite its corrosive properties

- A. It enhances dialyzer membrane lifespan
- B. It is less expensive and easier to handle
- C. It is effective at lower temperatures and leaves no harmful residues ✓
- D. It has better viral inactivation compared to formaldehyde

Q96 Professional Ability

Which part of the hemodialysis machine is responsible for pumping the patient's blood through the dialyzer?

- A. Blood pump ✓
- B. Air detector
- C. Heparin pump
- D. Dialysate pump

Q97 Professional Ability

When monitoring a patient on dialysis via a central line in the ICU, which CVP trend most likely indicates fluid overload?

- A. Fluctuating CVP values without a consistent pattern
- B. Stable CVP values throughout dialysis
- C. A sudden drop in CVP readings
- D. A sustained increase in CVP readings over time ✓

Q98 Professional Ability

Which of the following is NOT a typical component of CCPD dialysis fluid?

- A. Glucose
- B. Electrolytes
- C. Buffer
- D. Hemoglobin ✓

Q99 Professional Ability

Which term describes how a drug moves within the body, including absorption, distribution, metabolism, and excretion?

- A. Pharmacokinetics ✓
- B. Pharmacogenomics
- C. Toxicology
- D. Pharmacodynamics

Q100 Professional Ability

Why is it important to check hemoglobin levels regularly in dialysis patients?

- A. To detect infection
- B. To check cholesterol levels
- C. To assess liver function
- D. To monitor for anemia ✓



General Ability

30 Questions · Answer Key

Q1 General Ability

Which state hosted the 5th edition of the Khelo India University Games in 2025?

- A. Gujarat
- B. Haryana
- C. Rajasthan ✓
- D. Maharashtra

Q2 General Ability

How many ranks did India jump in the Gender Inequality Index 2022 as published in the Human Development Report 2023/2024?

- A. 7
- B. 5
- C. 14 ✓
- D. 11

Q3 General Ability

Which Articles in the Indian Constitution deal with the Supreme Court's organisation and powers?

- A. Articles 214 to 231
- B. Articles 100 to 110
- C. Articles 50 to 75
- D. Articles 124 to 147 ✓

Q4 General Ability

Read the given statement(s) and conclusions carefully. Assuming that the information given in the statement(s) is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement(s).

Statements:

All turnips are curd.
All milk is curd.

Conclusions:

- (I) Some turnips are milk.
(II) Some curds are milk.

- A. Both conclusions (I) and (II) follow.
- B. Neither conclusion (I) nor (II) follows.
- C. Only conclusion (II) follows. ✓
- D. Only conclusion (I) follows.

Q5 General Ability

A woman travelled at a speed of 20 m/min for 81 min, and at a speed of 70 m/min for 69 min. Her average speed (in m/min) is

- A. 49
- B. 36
- C. 43 ✓
- D. 47

Q6 General Ability

Which of these is not a tertiary activity?

- A. Car manufacturing ✓
- B. Teaching
- C. IT services
- D. Insurance

Q7 General Ability

The largest four-digit number which when divided by 9, 14 and 12 leaves remainder 8 in each case is:

- A. 9984
- B. 9836 ✓
- C. 9691
- D. 9819

Q8 General Ability

Which of the following deities is primarily worshipped during Chhath Pooja?

- A. Goddess Lakshmi
- B. Lord Ganesha
- C. Lord Surya ✓
- D. Lord Shiva

Q9 General Ability

Who appoints the Chairperson of the Committee on Public Undertakings (COPU) in India?

- A. Prime Minister
- B. President of India
- C. Chief Justice of India
- D. Speaker of Lok Sabha ✓



Q10 General Ability

The India–Nepal international border passes through all of the following Indian states except which one?

- A. Bihar
- B. Sikkim
- C. Uttar Pradesh
- D. Assam

**Q11 General Ability**

An iron rectangular sheet of a certain length and 49 cm width is used to form a cylinder by rolling the sheet along its length. If the volume of the cylinder formed is 7546 cm^3 , find the length (in cm) of the iron sheet. (Use $\pi = 22/7$)

- A. 110 cm
- B. 88 cm
- C. 44 cm
- D. 66 cm

**Q12 General Ability**

Which of the following pairs have the same valency?

- A. Oxygen and Aluminum
- B. Hydrogen and Oxygen
- C. Carbon and Nitrogen
- D. Sodium and Chlorine

**Q13 General Ability**

Moplah Rebellion against British occupation and the atrocities of the landlords mainly took place in which of the following regions of India?

- A. Malabar
- B. Coromandel
- C. Bengal
- D. Northern Circars

**Q14 General Ability**

Refer to the given number series and answer the question that follows (all numbers are single-digit numbers only). Counting to be done from left to right only.
(Left) 5 2 3 6 9 8 7 4 1 2 5 3 6 9 8 7 4 1 5 2 6 3 9 7 8 9 4 1 2 5 (Right)
How many such even digits are there that are immediately preceded by an odd digit and also immediately followed by an odd digit?

- A. 15
- B. 13
- C. 9
- D. 11

**Q15 General Ability**

Seven people, A, B, C, D, E, F and G, are sitting in a row, facing north.
Only two people sit to the left of F. Only three people sit between F and E. Only one person sits between E and D. A sits to the immediate left of B. C is not an immediate neighbour of E.
How many people sit between A and G?

- A. 4
- B. 3
- C. 2
- D. 1

**Q16 General Ability**

If a carbon compound like propanol is oxidized in the presence of potassium dichromate, what is the most likely product formed?

- A. Propane
- B. Methanol
- C. Propanoic acid
- D. Propene

**Q17 General Ability**

A straight conductor carrying current is placed perpendicular to a uniform magnetic field. Which of the following factors affects the magnitude of the force acting on the conductor?

- A. Strength of the magnetic field
- B. Resistance of the conductor
- C. Colour of the conductor
- D. Shape of the conductor



Q18 General Ability

Positive work is done by a force when the displacement is:

- A. Opposite to force
- B. At right angle to force
- C. Zero
- D. Along the direction of force ✓

Q19 General Ability

If the concentration of carbon dioxide is higher inside the cell than outside, how will CO₂ move across the plasma membrane?

- A. CO₂ will move into the cell by active transport
- B. CO₂ will be converted into oxygen
- C. CO₂ will move out of the cell by diffusion ✓
- D. CO₂ will remain inside the cell

Q20 General Ability

When metals like potassium and sodium react with cold water, an exothermic reaction occurs with the simultaneous evolution of:

- A. hydrogen gas ✓
- B. chlorine gas
- C. water vapour
- D. oxygen gas

Q21 General Ability

Each of the digits in the number 254871639 is arranged in ascending order from left to right. The position of how many digits will remain unchanged as compared to that in the original number?

- A. Two
- B. One ✓
- C. None
- D. Three

Q22 General Ability

Based on the English alphabetical order, three of the following four letter cluster pairs are alike in a certain way and thus form a group. Which is the one that does not belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster)

- A. TY-WZ
- B. PU-SV
- C. AF - DG
- D. OT - GA ✓

Q23 General Ability

When the distance from a straight, current-carrying conductor is doubled, what happens to the magnitude of the magnetic field at that point?

- A. Remains the same
- B. Increases
- C. Decreases ✓
- D. Becomes zero

Q24 General Ability

A concave mirror forms a magnified image only when the object is placed:

- A. Between the focus and the centre of curvature ✓
- B. At the centre of curvature
- C. At infinity
- D. Beyond the centre of curvature

Q25 General Ability

Virat deposited a sum of ₹34400 at 20% rate of interest per annum, compounded annually. The total amount received by Virat after 2 years is:

- A. ₹49707
- B. ₹49508
- C. ₹49536 ✓
- D. ₹49456

Q26 General Ability

In a mock test, marks obtained by 12 students, out of 100, are 69, 87, 78, 91, 78, 81, 87, 91, 96, 78, 69 and 81. What is the mode of the above data?

- A. 87
- B. 91
- C. 78 ✓
- D. 81

Q27 General Ability

The tiny blob-on-a-stick structures in bread mould that are involved in reproduction are known as _____.

- A. hyphae
- B. roots
- C. sporangia ✓
- D. leaves



Q28 General Ability

Which of the following explains how vacuoles help maintain the structure of plant cells?

- A. By expelling excess water
- B. By storing chlorophyll
- C. By aiding in cell division
- D. By providing turgidity and rigidity ✓

Q29 General Ability

During the Winter Session of Parliament (1–19 December 2025), which of the following bills was enacted as an Act of Parliament (i.e., passed by both Houses and brought into force as an Act)?

- A. The Repealing and Amending Bill, 2025 ✓
- B. The Viksit Bharat Shiksha Adhishthan Bill, 2025
- C. The Securities Markets Code Bill, 2025
- D. The Insolvency and Bankruptcy Code (Amendment) Bill, 2025

Q30 General Ability

The Indian government unveiled which of the following guidelines in November 2025, which are comprehensive frameworks to ensure safe, inclusive and responsible AI adoption across various sectors and propose a robust governance framework to foster cutting-edge innovation and safely develop and deploy AI?

- A. Telecommunications Act 2023 Enforcement Framework
- B. Digital Personal Data Protection (DPDP) Rules
- C. Semiconductor Manufacturing Policy 2.0
- D. India AI Governance Guidelines ✓

Professional Ability

70 Questions • Answer Key

Q31 Professional Ability

A nurse preparing to assist in surgery notices that a colleague's uniform has visible stains of blood from the previous shift. Considering infection control protocols for personal hygiene and attire in the operating room, what is the most appropriate action for the nurse to take?

- A. Cover the stains with a disposable gown and proceed
- B. Use hand sanitizer on the stained area of the uniform
- C. Advise the colleague to change into a clean uniform before entering the sterile area ✓
- D. Ignore the stains if the colleague washes their hands thoroughly

Q32 Professional Ability

A new residential colony is being developed near a river known for seasonal flooding and contamination. As the consulting environmental health engineer, you are asked to design a system that will most effectively minimize the risk of waterborne disease outbreaks for the colony's future residents. Which of the following engineering solutions should you prioritize in your plan?

- A. Placing warning signs along the riverbank
- B. Distributing educational pamphlets on hygiene
- C. Designing and implementing a comprehensive sewage treatment and disposal system ✓
- D. Scheduling weekly health check-up camps

Q33 Professional Ability

A city government is planning to minimize municipal waste. Which of the following actions best demonstrates the waste hierarchy principle in municipal waste management?

- A. Launching a landfill expansion plan for easy disposal
- B. Prioritizing reuse initiatives before recycling and disposal ✓
- C. Discouraging the composting of organic waste in the city
- D. Starting a campaign for incineration of waste for early disposal

Q34 Professional Ability

A nurse in a dialysis center must dispose of used dialysis tubing and catheters. After chemical disinfection, what is the most effective next step to ensure these items cannot be reused and are safe for further disposal?

- A. Incinerating the items immediately
- B. Washing the items and storing them for future use
- C. Shredding the items to render them non-functional ✓
- D. Sending the items directly to a landfill



Q35 Professional Ability

A public health officer is reviewing the annual birth and death records in a rural district to assess the impact of recent health interventions. Which method would most accurately ensure the completeness and reliability of these vital statistics for policy planning?

- A. Using hospital records as the primary source of vital events
- B. Implementing a civil registration system that continuously records births and deaths ✓
- C. Estimating figures based on informal reports from local health workers
- D. Relying on periodic household surveys conducted every five years

Q36 Professional Ability

A district epidemiologist is evaluating the effectiveness of a recent Pulse Polio campaign in a region with historically low vaccine coverage. She notices a significant reduction in new polio cases following the campaign. Based on this outcome, which strategy should she prioritize to sustain polio-free status in the area?

- A. Switching to injectable polio vaccine for all future campaigns
- B. Maintaining high surveillance and periodic mass vaccination rounds ✓
- C. Focusing only on routine immunization of newborns
- D. Discontinuing mass campaigns after a single successful round

Q37 Professional Ability

A hospital maintenance team is responding to frequent foul odors in patient bathrooms despite regular cleaning. The team suspects a malfunction in the plumbing system. Which type of trap would most effectively prevent sewer gases from entering these rooms under normal conditions?

- A. Intercepting trap
- B. Floor trap
- C. P-trap ✓
- D. Bottle trap

Q38 Professional Ability

Which category of biomedical waste typically needs to be disposed through incineration?

- A. Blue category
- B. Yellow category ✓
- C. White category
- D. Red category

Q39 Professional Ability

A community health officer must select a ventilation plan for a crowded community center in an urban area with occasional smog. Which plan will best safeguard occupants' health while maintaining comfort?

- A. Natural ventilation with open windows during all operating hours
- B. Mechanical ventilation with air filtration and adjustable airflow rates ✓
- C. Basic air conditioning without outdoor air filtration
- D. Installing exhaust fans in high-occupancy rooms only

Q40 Professional Ability

Which of the following intervention contributes to the primary prevention of the disease?

- A. Early diagnosis and treatment
- B. Rehabilitation
- C. Specific protection ✓
- D. Disability limitation

Q41 Professional Ability

Which of the following types of waste is typically disposed of in a yellow biohazard bag?

- A. Discarded medicines
- B. Plastic waste and glass bottles
- C. Used sharps like needles and syringes
- D. Human anatomical waste and soiled dressings ✓

Q42 Professional Ability

A regional health administrator is tasked with reducing infant mortality. Census data reveal significant variations in Population density and access to maternal and child health services across the region. Given limited resources, how can the administrator best use census data to formulate an equitable health policy?

- A. Launching a universal infant health campaign without considering population data
- B. Increasing health funding for regions with lowest population density
- C. Allocating health resources equally to all regions
- D. Directing additional health resources to densely populated areas with limited access to health service ✓



Q43 Professional Ability

A patient from an elderly care home presents with poor personal hygiene, recent decreased mobility, and signs of compromised circulation. Due to limited access to running water, what is the next best step in infection control management for this patient?

- A. Perform Gram staining to identify possible pathogens before hygiene intervention
- B. Administer broad-spectrum antibiotics as a preventive measure
- C. Initiate alcohol-based hand rubs and promote assisted hygiene routines ✓
- D. Collect samples for PCR testing of skin flora before any hygiene measures

Q44 Professional Ability

Which vital sign indicates the body's oxygenation and respiratory function?

- A. Pulse rate
- B. Temperature
- C. Respiration rate ✓
- D. Blood pressure

Q45 Professional Ability

Maternal Mortality Ratio (MMR) is defined as maternal deaths per:

- A. 100 live births
- B. 1,00,000 live births ✓
- C. 10,000 live births
- D. 1,000 live births

Q46 Professional Ability

A 55-year-old man is found unresponsive at his workplace. He is not breathing and has no pulse. What is the most appropriate first-line action?

- A. Apply a splint to his leg
- B. Administer intravenous antibiotics
- C. Give oral glucose
- D. Begin chest compressions (CPR) immediately ✓

Q47 Professional Ability

Which of the following is a rodent-borne disease?

- A. Plague ✓
- B. Typhoid
- C. Malaria
- D. Cholera

Q48 Professional Ability

A nurse working in a busy hospital ward notices that a large number of single-use gloves are being discarded after brief, non-invasive patient contact. To promote biomedical waste minimization in this scenario, which action should the nurse prioritize?

- A. Advise staff to double-glove for all procedures
- B. Educate staff to use gloves only when indicated by guidelines ✓
- C. Suggest disposing of unused gloves regularly
- D. Encourage use of gloves for every patient interaction

Q49 Professional Ability

Which of the following best describes the definition of health according to public health concepts?

- A. The absence of visible disease symptoms only
- B. Freedom from infections only
- C. The ability to do physical labor only
- D. A state of complete physical, mental, and social well-being ✓

Q50 Professional Ability

A 28-year-old pregnant woman is found to have mild anemia during her second trimester. Her diet mainly consists of whole grains, dairy products, and green leafy vegetables, but she rarely consumes red meat or citrus fruits. Which combination of dietary changes would most effectively improve her anemia?

- A. Increase intake of citrus fruits and lean red meat ✓
- B. Increase intake of few dairy products and selected root vegetables
- C. Decrease intake of butter and eggs
- D. Decrease consumption of whole grains and increase white bread

Q51 Professional Ability

Which of the following is NOT a core function of public health?

- A. Accreditation ✓
- B. Assessment
- C. Policy development
- D. Assurance



Q52 Professional Ability

A public health officer is assigned to design a health education campaign addressing rising burden of type 2 diabetes in a semi-urban community. She begins by conducting a needs assessment, reviewing epidemiological data, and consulting with local healthcare providers. What is the PRIMARY purpose of her initial needs assessment?

- A. To develop educational materials for distribution
- B. To evaluate the effectiveness of previous campaigns
- C. To identify existing community resources
- D. To determine the specific health education needs of the target population ✓

Q53 Professional Ability

A general ward nurse is responsible for measuring patients' weight daily. Which of the following steps should she prioritize to ensure the most accurate and consistent measurements?

- A. Ensure the same type of calibrated scale is used at the same time each day ✓
- B. Record weights after meals for convenience
- C. Allow patients to wear any type clothing during weighing
- D. Weigh patients at random times to fit staff schedules

Q54 Professional Ability

During a tuberculosis outbreak in a long-term care facility, the environmental health officer is tasked with improving air disinfection strategies in patient rooms. Which process best addresses both removal of airborne bacteria and prevention of their recirculation?

- A. Use of regular air fresheners to mask odors
- B. Placement of oscillating fans to increase air movement
- C. Periodic spraying of chemical disinfectants into the air
- D. Installation of negative pressure ventilation with HEPA filtration ✓

Q55 Professional Ability

In rheumatic heart disease (RHD), which heart valve is most frequently affected?

- A. Tricuspid valve
- B. Aortic valve
- C. Pulmonary valve
- D. Mitral valve ✓

Q56 Professional Ability

A 65-year-old male patient is admitted with fever, profuse watery diarrhea, and a recent history of antibiotic use. On examination, his abdomen is mildly tender. Which is the most appropriate first-line infection control measure for healthcare staff when caring for this patient?

- A. Administer prophylactic antiviral therapy to staff
- B. Place patient in respiratory isolation with N95 mask
- C. Implement contact precautions including use of gloves and gown ✓
- D. No special precautions beyond standard hand hygiene

Q57 Professional Ability

Which of the following is true regarding the natural history of disease?

- A. Progression of a disease process in an individual over time, in the absence of treatment. ✓
- B. Observation of a disease process in a population with treatment.
- C. Prevention of disease process in an individual over time, in the absence of treatment.
- D. Promotion of a disease process in an individual over time, with treatment.

Q58 Professional Ability

During an earthquake response, a civil defence team is tasked with maintaining environmental sanitation in a temporary shelter. The team notices that open defecation is taking place near the shelter, raising concerns about potential disease transmission. Which intervention should the team implement first to reduce health risks?

- A. Instructing residents to boil drinking water
- B. Distributing additional blankets to residents
- C. Spraying insecticides around the shelter
- D. Constructing and designating safe latrine areas ✓

Q59 Professional Ability

Which of the following is the best example of a disaster risk reduction strategy?

- A. TRIAGE
- B. First aid
- C. Earthquake resistant building ✓
- D. Rescue operation



Q60 Professional Ability

A large urban hospital is evaluating different solid waste disposal methods to minimize environmental hazards. The team must consider both the potential for groundwater contamination and air quality deterioration. Which combination of disposal methods should be most carefully assessed for these polluting effects?

- A. Shredding and recycling
- B. Autoclaving and deep burial
- C. Composting and open burning
- D. Sanitary landfill and incineration

**Q61 Professional Ability**

A 65-year-old patient with a urinary catheter develops a suspected infection. The infection control nurse is tasked to disinfect the reusable bedpan used by the patient. Based on the classification of disinfectants, which agent should the nurse select to ensure adequate disinfection while minimizing risk to patients?

- A. Hydrogen peroxide
- B. Quaternary ammonium compound
- C. Alcohol-based solution
- D. Chlorine-based compound

**Q62 Professional Ability**

Which nutrient is most essential for the development and maintenance of strong teeth?

- A. Calcium
- B. Fluoride
- C. Vitamin K
- D. Vitamin C

**Q63 Professional Ability**

Which of the following combinations represents the highest modifiable risk for developing coronary heart disease?

- A. Hypertension and hyperlipidemia
- B. Sedentary lifestyle and age
- C. Hypertension and age
- D. Family history and sedentary lifestyle

**Q64 Professional Ability**

A school building located in a densely populated urban area faces challenges with outdoor air pollution. The administration wants to ensure good indoor air quality for students. Which ventilation system is most appropriate in this context?

- A. Wind-driven roof ventilators
- B. Mechanical supply ventilation with air filtration
- C. Natural ventilation through open windows
- D. Gravity-based stack ventilation

**Q65 Professional Ability**

Which of the following pieces of equipment is commonly used to transport vaccines to outreach immunization sessions in India?

- A. Deep freezer
- B. Vaccine carrier
- C. Cold box
- D. Day carrier

**Q66 Professional Ability**

A common method of hospital liquid waste disposal is:

- A. Evaporation in open air
- B. Mixing with solid waste
- C. Sewerage system connected to treatment plant
- D. Open dumping

**Q67 Professional Ability**

A nurse is preparing to care for a new patient who has just been admitted to a surgical ward. To minimize the risk of healthcare associated infections, which action should the nurse prioritize before entering the patient's room?

- A. Disinfecting the stethoscope only
- B. Wearing a surgical mask
- C. Putting on sterile gloves
- D. Performing hand hygiene



Q68 Professional Ability

A 35-year-old male presents to the emergency department with high fever, muscle aches, and a rapidly progressing rash. Over the next 48 hours, several other individuals from the same workplace develop similar symptoms. As part of the outbreak investigation team, what should be your first step in confirming the existence of an outbreak?

- A. Implementing immediate quarantine of all affected individuals
- B. Collecting blood specimens for serological testing
- C. Reviewing surveillance data to compare current case numbers with expected baseline ✓
- D. Interviewing patients about recent travel history

Q69 Professional Ability

A patient at a community clinic presents with a persistent cough, low-grade fever, and mild body aches. As a sanitary health care worker, which of the following is the most appropriate initial action to take to prevent spread of common airborne ailments?

- A. Give the patient cough syrup and send home
- B. Advise the patient to wear a mask and sit in a separate waiting area ✓
- C. Immediately refer the patient to a specialist
- D. Ask the patient to wait with others in the main waiting area

Q70 Professional Ability

Proper disposal of human excreta is primarily important to prevent:

- A. Skin diseases only
- B. Respiratory diseases
- C. Nutritional deficiency diseases
- D. Waterborne diseases like cholera and diarrhea ✓

Q71 Professional Ability

Which of the following diseases are NOT prevented by improving environmental sanitation?

- A. Diarrhea and dysentery
- B. Malaria and dengue
- C. Cancer and AIDS ✓
- D. Cholera and typhoid

Q72 Professional Ability

In a peri-urban setting with both rodent and mosquito infestations, a sanitation manager must develop an integrated vector control plan. Which combination of actions would be most effective for controlling both disease vectors?

- A. Encouraging community education on personal hygiene practices
- B. Focusing solely on source reduction through environmental cleanup
- C. Coordinating the application of rodenticides in burrows and larvaecidals in stagnant water ✓
- D. Distributing insecticide-treated bed nets to all households

Q73 Professional Ability

In which year was the National Viral Hepatitis Control Program (NVHCP) launched in India?

- A. 2018 ✓
- B. 2016
- C. 2015
- D. 2017

Q74 Professional Ability

What is represented by the 'H' and 'N' in H5N1?

- A. Hemorrhagic and Nasty
- B. Human and Natural
- C. Haemoglobin and Neuroleptics
- D. Hemagglutinin and Neuraminidase ✓

Q75 Professional Ability

Which of the following anthropometric measurements is most helpful to assess central adiposity and associated metabolic risk in adults?

- A. Body Mass Index (BMI)
- B. Waist circumference ✓
- C. Triceps skinfold thickness
- D. Height



Q76 Professional Ability

A dietitian is reviewing a patient's meal log and notices frequent fatigue and slow wound healing. After analyzing the nutrients, which deficiency is most likely responsible?

- A. Vitamin D
- B. Vitamin C** ✓
- C. Vitamin A
- D. Vitamin B12

Q77 Professional Ability

A public health officer is assessing factors that increase the greenhouse effect and contribute to rising temperatures in an urban area. Which of the following practices most directly increases the greenhouse effect?

- A. Increased automobile emissions** ✓
- B. Regular street cleaning
- C. Proper disposal of medical waste
- D. Installing energy-efficient lighting

Q78 Professional Ability

A Sanitary Health Inspector is tasked with ensuring sanitary standards at a temporary shelter set up after a flood. The shelter has limited water supply, crowded sleeping areas, and makeshift cooking arrangements. To best protect the health of the shelter's inhabitants, which intervention should the inspector implement first, considering the risk of communicable disease transmission?

- A. Supervise the preparation of cooked food
- B. Increase the frequency of sleeping area cleaning
- C. Set up temporary hand-washing stations and ensure their use before meals and after toilet use** ✓
- D. Install additional refuse bins around the shelter

Q79 Professional Ability

A hospital's infection control team is reviewing the disposal methods for anatomical waste generated in the operating theatre. Which of the following best explains why incineration is commonly chosen for anatomical biomedical waste?

- A. It produces no air pollutants during the process.
- B. It is suitable for recycling all types of biomedical waste.
- C. It ensures complete destruction of infectious materials and reduces waste volume significantly.** ✓
- D. It is the most cost-effective method for all waste categories.

Q80 Professional Ability

The safe limit of occupational noise exposure in India (as per Factories Act) is:

- A. 40 dB
- B. 120 dB for 8 hours
- C. 90 dB for 8 hours** ✓
- D. 55 dB

Q81 Professional Ability

During a major chemical spill near a densely populated residential area, which action by a sanitary healthcare worker best follows civil defence principles to protect public health?

- A. Distributing respiratory protective equipment to high-risk groups pending regulatory guidance
- B. Initiating phased evacuation of healthcare staff after preliminary exposure assessment
- C. Enforcing movement restrictions until acceptable exposure limits are confirmed
- D. Issuing an immediate, coordinated shelter-in-place advisory with emergency agencies** ✓

Q82 Professional Ability

During a simulated cardiac arrest drill, a team of two healthcare providers is performing CPR on an adult patient. After 2 minutes, the compressor shows signs of fatigue. What is the BEST practice for maintaining high-quality CPR in this scenario?

- A. Pause for 1 minute after every 30 compressions
- B. Reduce the compression rate to allow the rescuer to recover
- C. Switch roles between compressions and ventilation as soon as fatigue is noticed** ✓
- D. Continue with the same rescuer to avoid confusion

Q83 Professional Ability

How should healthcare workers reduce the risk of needle stick injuries?

- A. Avoid recapping used needles** ✓
- B. Always recap with both hands
- C. Dispose needles in dustbins
- D. Bend needles before disposal



Q84 Professional Ability

A community health worker observes several patients at a rural clinic. Which of these behaviors is most directly linked to preventing the spread of communicable diseases during patient care?

- A. Regular nail trimming
- B. Consistent bathing
- C. Changing into clean uniforms
- D. Washing hands before procedures ✓

Q85 Professional Ability

During a hospital inspection, a team finds that untreated sewage from the facility is being discharged into a nearby river. What is the most significant public health implication of this practice?

- A. Improved soil fertility near the discharge site
- B. Decreased odor within the hospital compound
- C. Increased mosquito breeding in the hospital area
- D. Increased risk of waterborne disease outbreaks downstream ✓

Q86 Professional Ability

Following are the examples of green house gases EXCEPT

- A. Oxygen ✓
- B. Methane
- C. Chlorofluorocarbon
- D. Carbon dioxide

Q87 Professional Ability

What is the best method of domestic waste disposal?

- A. Autoclaving
- B. Dumping
- C. Composting ✓
- D. Incineration

Q88 Professional Ability

Which method is participatory and combines education with entertainment?

- A. Posters
- B. Street plays ✓
- C. Pamphlets
- D. Leaflets

Q89 Professional Ability

A very low-birth-weight newborn in a burn unit needs IV cannulation. The baby has extremely delicate skin, and antiseptics like alcohol and iodine cannot be used because of the risk of skin damage and toxicity. In this situation, which is the most appropriate step to reduce infection risk at the insertion site?

- A. Clean the skin gently with sterile normal saline using aseptic technique ✓
- B. Apply povidone-iodine briefly to the skin and wipe it off gently
- C. Apply a phenolic disinfectant to kill all the microorganisms
- D. Send a skin sample for Gram staining procedure before cannulation

Q90 Professional Ability

How does census data influence health policy?

- A. Helps plan health services based on population needs ✓
- B. Controls medicine prices
- C. Sets hospital fees
- D. Determines doctor salaries

Q91 Professional Ability

Which of the following group teaching methods involves active participation and free exchange of knowledge among members?

- A. Symposium
- B. Group discussion ✓
- C. Lecture
- D. Panel discussion

Q92 Professional Ability

During an evaluation, which factor would most likely undermine the effectiveness of contact precautions in a long-term care facility?

- A. Providing patient education about infection prevention
- B. Using disposable medical supplies for infected patients
- C. Inconsistent use of personal protective equipment by staff ✓
- D. Posting signs about precautions outside patient rooms



Q93 Professional Ability

A couple agreed to undergo permanent sterilization. Which of the following principle of health education has contributed to this?

- A. Known to unknown
- B. Learning by doing
- C. Feedback
- D. Motivation

**Q94 Professional Ability**

Which of the following are essential components of an institutional emergency response system?

- A. Focusing solely on financial planning and considering personal work
- B. Handling administrative paperwork exclusively and conducting meeting
- C. Conducting routine meetings only and personal preferences
- D. Defined command structure, effective communication channels, and strategic resource allocation

**Q95 Professional Ability**

Sanitation workers must decide between two disinfectants to control an outbreak of a drug-resistant bacterial infection in a surgical ward. Disinfectant A is highly effective against spores, while Disinfectant B is faster acting but less effective on spores. Based on principles of infectious disease epidemiology, which should they select and why?

- A. Either disinfectant A or B— Consistent cleaning protocols matter more than the agent chosen
- B. Disinfectant B — It is more affordable and practical for routine environmental cleaning
- C. Disinfectant B — Its rapid activity allows faster turnover of cleaning tasks
- D. Disinfectant A — It provides reliable elimination of resistant organisms despite slower action

**Q96 Professional Ability**

In a community health intervention, you are tasked with developing a prevention program for acute respiratory infections among school-aged children. Which strategy would be most effective in reducing transmission in this population?

- A. Promoting regular handwashing and respiratory hygiene
- B. Distributing mosquito nets to all students
- C. Providing vitamin A supplementation only
- D. Encouraging daily outdoor exercise regardless of symptoms

**Q97 Professional Ability**

The recommended duration for effective handwashing is:

- A. 20–30 seconds
- B. 5–10 seconds
- C. 5 minutes
- D. 1 minute

**Q98 Professional Ability**

During a community health assessment, a nurse collects data on births, deaths, and marriages within the district. She explains to her team that these statistics help in understanding the health status and trends of the population. Which term best describes the collective data she is referring to?

- A. Vital Statistics
- B. Morbidity Statistics
- C. Census Data
- D. Epidemiological Surveillance

**Q99 Professional Ability**

During the disposal of used sharps in a busy emergency department, a nurse notices that a colleague of hers is not following the standard PPE protocols. Which combination of PPE is essential for safely handling and disposing of sharps in this environment, considering both hand and body protection?

- A. Face shield and apron
- B. Shoe covers and goggles
- C. Heavy-duty gloves and gown
- D. Surgical mask and cap

**Q100 Professional Ability**

What is the primary purpose of a self-cleansing velocity in a sewer system?

- A. To slow down the flow of wastewater
- B. To mix different types of wastewaters
- C. To increase the pressure within the pipes
- D. To prevent the accumulation of solids in the drains



General Ability

30 Questions · Answer Key

Q1 General Ability

The share price of a company was ₹2,000. It increased by 5% in the first year and then increased by 30% in the second year. What is the share price (in ₹) of the company after two years?

A. 2,730



B. 2,650

C. 2,790

D. 2,100

Q2 General Ability

Which of the following Indian states shares an international boundary with both Bangladesh and Myanmar?

A. Assam

B. Mizoram



C. Tripura

D. Manipur

Q3 General Ability

Which of the following asexual reproduction techniques is commonly used for the multiplication of ornamental plants?

A. Fission

B. Spore formation

C. Tissue culture



D. Fragmentation

Q4 General Ability

If the cartilage in joints is damaged, which property of connective tissue is most affected?

A. Fat storage

B. Transmission of impulses

C. Blood cell formation

D. Flexibility and support



Q5 General Ability

Marathi belongs to which of the following language families?

A. Dravidian

B. Indo-Aryan



C. Tibeto-Burman

D. Austroasiatic

Q6 General Ability

The McMahon Line separates India from which country?

A. China



B. Myanmar

C. Nepal

D. Pakistan

Q7 General Ability

In an experiment, a student blocks the entry of pollen tubes into the ovule. Which process will be directly affected?

A. Pollination

B. Fertilisation



C. Seed germination

D. Ovary development

Q8 General Ability

What should come in place of the '?' in the given series based on the English alphabetical order?

FEG KJL POQ UTV ?

A. ZXB

B. YBD

C. ZYA



D. YCE



Q9 General Ability

All 53 people are standing in a row facing north. Nishika is 44th from the right end, while Subham is 41st from the left end. How many people are there between Nishika and Subham?

A. 23

B. 30



C. 21

D. 24

Q10 General Ability

The governor's power to issue ordinances is mentioned in which Article of the Indian Constitution?

A. 213



B. 199

C. 112

D. 123

Q11 General Ability

India's **First Five-Year Plan (FYP)** was launched in which year?

A. 1947

B. 1956

C. 1961

D. 1951

**Q12 General Ability**

Which charged particle in an atom moves around the nucleus?

A. Electron



B. Positron

C. Neutron

D. Proton

Q13 General Ability

Refer to the following letter, symbol series and answer the question. Counting to be done from left to right only (Left) D \$ # E O % \$ \$ I £ % © & @ # G * © M * I N (Right) How many such letters are there each of which is immediately preceded by a letter and also immediately followed by a symbol?

A. 2

B. 3

C. 0

D. 1

**Q14 General Ability**

A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and select the most appropriate answer.

Question:

Among five sticks, V, H, Y, D and N, each having a different height, which stick is the shortest?

Statements:

(I) D is taller than only one stick. V is taller than H.

(II) D is taller than N.

A. Data in Statement II alone is sufficient to answer the question while data in statement I is not

B. Data in Statement I alone is sufficient to answer the question while data in statement II is not

C. Both statements I and II together are NOT sufficient to answer the question

D. Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question.

**Q15 General Ability**

If Thomson's model is applied to explain the stability of multi-electron atoms, what major flaw arises?

A. Electrons lose energy continuously while revolving.

B. Electrons revolve in fixed circular orbits.

C. Fails to explain atomic stability and line spectra.



D. The positive charge is concentrated at the nucleus.

Q16 General Ability

Which of the following incidents led to the withdrawal of the Non-Cooperation Movement?

A. Chauri Chaura incident



B. Arrival of Simon Commission

C. Dandi March

D. Jallianwala Bagh massacre

Q17 General Ability

What is the name given to the robotic surgery facility inaugurated at AIIMS Raipur in Central India in early September 2025?

A. RoboHeal

B. Devhast



C. Roboray

D. SurgiTech



Q18 General Ability

What is the name of the Act passed by the Indian Parliament in August 2025 to regulate online gaming and restrict online money games?

- A. Promotion and Regulation of Online Gaming Act, 2025 ✓
- B. Online Gaming (Promotion and Protection) Act, 2025
- C. Social Media Games Act, 2025
- D. Digital Gaming Act, 2025

Q19 General Ability

In a household circuit, why is it important to connect appliances in parallel rather than in series?

- A. To increase the total current in the circuit
- B. To allow all appliances to generate equal magnetic fields
- C. To ensure each appliance receives the same voltage ✓
- D. To reduce energy consumption

Q20 General Ability

A conductor carrying current is placed perpendicular to a magnetic field. According to Fleming's left hand rule, the direction of force on the conductor is ____.

- A. along the magnetic field
- B. opposite to current
- C. no force acts on the conductor
- D. perpendicular to both the magnetic field and current ✓

Q21 General Ability

A pipe can fill a tank in 6 hours. Another pipe can empty the filled tank in 7 hours. If both the pipes are opened simultaneously, then the time (in hours) in which the tank will be half filled, is:

- A. 22
- B. 43
- C. 21 ✓
- D. 42

Q22 General Ability

A car travels 60 km in 2 hours and 90 km in 3 hours. Its average speed is _____.

- A. 45 km/h
- B. 50 km/h
- C. 40 km/h
- D. 30 km/h ✓

Q23 General Ability

"The State shall endeavour to secure for the citizens a uniform civil code throughout the territory of India" is a provision mentioned in which of the following Parts of the Constitution of India?

- A. Part IVA
- B. Part IV ✓
- C. Part V
- D. Part III

Q24 General Ability

Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(18, 19, 342)
(20, 22, 440)

- A. (16, 22, 352) ✓
- B. (26, 13, 388)
- C. (24, 17, 508)
- D. (23, 17, 368)

Q25 General Ability

In a quadrilateral ABCD, the diagonals intersect at point P, forming four triangles. The areas of $\triangle APD$ and $\triangle BPC$ are 27 cm^2 and 12 cm^2 , respectively. It is also known that the areas of $\triangle APB$ and $\triangle CPD$ are equal. Using this information, determine the area (in cm^2) of $\triangle APB$.

- A. 12
- B. 27
- C. 24
- D. 18 ✓

Q26 General Ability

What does the formula Na_2SO_4 indicate about the molecule?

- A. It contains two sulphur atoms
- B. It contains two oxygen atoms
- C. It contains four sodium atoms
- D. It contains two sodium atoms ✓



Q27 General Ability

In November 2025, the Government of India consolidated 29 labour laws into how many comprehensive Labour Codes?

A. Two

B. Ten

C. Four



D. Six

Q28 General Ability

The mean age of the girls in a class is 15 years, whereas the mean age of the boys in the class is 17 years. If the mean age of the whole class is 16 years, find the ratio of the number of girls to the number of boys in the class.

A. 2 : 3

B. 1 : 1



C. 1 : 2

D. 2 : 1

Q29 General Ability

The value of $2.5555... + 1.6363... - 1.1111...$ is:

A. $\frac{305}{99}$



B. $\frac{311}{108}$

C. $\frac{310}{100}$

D. $\frac{300}{107}$

Q30 General Ability

Which of the following expressions is correct for time period 'T', when the frequency (ν) of sound wave is 500 Hz?

A. $T = \frac{1}{5} \text{ s}$

B. $T = \frac{1}{500} \text{ s}$



C. $T = 500 \text{ s}$

D. $T = 5 \text{ s}$

Professional Ability

70 Questions • Answer Key

Q31 Professional Ability

A laboratory is required to prepare a 0.9% saline solution using SI units. What is the correct amount of sodium chloride (in grams) needed to prepare 500 mL of this solution?

A. 0.45

B. 4.5



C. 1.8

D. 9.0

Q32 Professional Ability

When performing a negative stain on bacteria, which reagent is commonly used to stain the background for clear visualization of cell morphology?

A. India ink



B. Methylene blue

C. Crystal violet

D. Safranin



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Q33 Professional Ability

Performing diagnostic tests **without valid clinical indication and without informing the patient** represents which ethical violation?

- A. Benevolence
- B. Malpractice** ✓
- C. Confidentiality
- D. Conscientiousness

Q34 Professional Ability

Which of the following is/are commonly used as blood substitute(s)?

- A. Trisodium Citrate
- B. Dextrose
- C. Saline
- D. Perfluorocarbons** ✓

Q35 Professional Ability

A stool sample that floats and appears greasy is most likely associated with which chemical abnormality?

- A. High glucose
- B. Increased fat content** ✓
- C. Excess uric acid
- D. Increased protein content

Q36 Professional Ability

Which type of glassware is most suitable for preparing standard solutions due to its high accuracy in volume measurement?

- A. Beaker
- B. Measuring cylinder
- C. Volumetric flask** ✓
- D. Test tube

Q37 Professional Ability

A patient's urine sample is dark brown and tests positive for bilirubin. What is the most likely diagnosis?

- A. Liver dysfunction such as hepatitis** ✓
- B. Diabetes mellitus
- C. Urinary tract infection
- D. Dehydration

Q38 Professional Ability

Which of the following pairs of anatomical terms are opposites and describe relative closeness to the midline?

- A. Superficial and Deep
- B. Proximal and Distal
- C. Medial and Lateral** ✓
- D. Superior and Inferior

Q39 Professional Ability

What is the correct sequence of steps to be followed if a chemical spill occurs in the laboratory?

- A. Alert others, evacuate area, follow spill procedure, report incident** ✓
- B. Evacuate area, ignore spill, continue working, report incident
- C. Clean spill with bare hands, continue work, report later
- D. Ignore spill, report at end of shift, clean next day

Q40 Professional Ability

What is the recommended time frame within which a urine sample should be processed for culture after collection?

- A. Within 12 hours
- B. After 24 hours
- C. After 8 hours
- D. Within 2 hours** ✓

Q41 Professional Ability

What is the main principle behind the glucose oxidase-peroxidase (GOD-POD) method of blood glucose estimation?

- A. Oxidation of glucose to gluconic acid and hydrogen peroxide** ✓
- B. Precipitation of proteins to drive protein phase separation
- C. Reduction of copper ions to cupric ion
- D. Formation of a blue colored complex with glucose

Q42 Professional Ability

Which type of blood collection bag is ideal for collecting blood for platelet concentrate preparation?

- A. Quadruple bag** ✓
- B. Double bag
- C. Single bag
- D. Triple bag



Q43 Professional Ability

Which of the following equipment is used to make the puncture for capillary blood collection?

- A. Hypodermic needle
- B. Lancet ✓
- C. Butterfly infusion set
- D. Syringes

Q44 Professional Ability

Which anticoagulant is preferred for plasma glucose estimation in clinical biochemistry?

- A. Citrate
- B. Heparin
- C. EDTA
- D. Sodium fluoride ✓

Q45 Professional Ability

A phlebotomist needs to collect venous blood from an adult patient for routine testing. Considering accessibility, risk of complications, and vein stability, which site is generally preferred for initial venipuncture?

- A. Cephalic vein along the lateral aspect of the arm because it is always larger than other veins
- B. Basilic vein along the medial aspect of the arm because it carries the highest blood flow
- C. Median cubital vein in the antecubital fossa due to its superficial location and minimal risk of nerve injury ✓
- D. Dorsal venous network of the hand because it has the least chance of hematoma formation

Q46 Professional Ability

Which of the following best describes the principle behind autoclaving for sterilization?

- A. It uses dry heat to oxidize contaminants
- B. It uses pressurized steam to destroy microorganisms ✓
- C. It uses ultraviolet light to disrupt DNA
- D. It uses filtration to remove particles

Q47 Professional Ability

A laboratory technician finds a greasy residue on a flask after autoclaving. What is the most likely reason for this?

- A. Water used in autoclave was contaminated
- B. Glassware was not properly cleaned before sterilization ✓
- C. The autoclave temperature was too high
- D. Flask material reacted with steam

Q48 Professional Ability

In a clinical scenario, a pregnant woman is Rh negative and her partner is Rh positive. What is the best intervention to prevent hemolytic disease of the fetus and newborn?

- A. Administer anti-D immunoglobulin to the father
- B. Administer anti-D immunoglobulin to the mother ✓
- C. No intervention is necessary
- D. Perform an exchange transfusion on the fetus

Q49 Professional Ability

During the standardization of a 1.0 mL volumetric pipette, which substance can be used instead of distilled water?

- A. Alcohol
- B. Liquid Nitrogen
- C. Saline
- D. Mercury ✓

Q50 Professional Ability

During sputum processing, what is the correct action if the specimen received is mostly saliva?

- A. Wash the sample with saline
- B. Incubate the sample
- C. Stain the sample with iodine
- D. Reject the sample ✓

Q51 Professional Ability

When preparing a standard solution in a volumetric flask, the concentration calculated as amount of solute per liter of solution is expressed in which unit?

- A. Moles per liter ✓
- B. Milligrams per liter
- C. Normal per liter
- D. Grams per liter



Q52 Professional Ability

A laboratory technician receives a valuable tissue sample that must remain viable for future DNA analysis. Which preservation technique should be applied to best protect both cellular structure and genetic material?

- A. Fixation with formalin
- B. Deep freezing at -80 degrees Celsius ✓
- C. Immersion in saline solution
- D. Dry heat sterilization

Q53 Professional Ability

What is the significance of metachromatic granules observed in *Corynebacterium diphtheriae* when using Neisser staining?

- A. They demonstrate cell wall structure
- B. They indicate the presence of stored phosphate ✓
- C. They show flagella arrangement
- D. They confirm antibiotic resistance

Q54 Professional Ability

Which statement best describes the main purpose of an 'in use test' when evaluating disinfectants in a healthcare setting?

- A. It determines the shelf life of the disinfectant.
- B. It ensures the disinfectant is safe for skin application.
- C. It assesses the effectiveness of a disinfectant during actual conditions of use. ✓
- D. It identifies all microorganisms present in the disinfectant bottle.

Q55 Professional Ability

Which of the following actions is most appropriate as an immediate first aid step before seeking further help if a glass container shatters and a student receives a cut that is bleeding?

- A. Cover the wound immediately with adhesive tape without prior cleaning
- B. Rinse the wound under running water for several minutes before controlling bleeding
- C. Apply alcohol directly into the wound before attempting hemostasis
- D. Apply firm direct pressure with a clean cloth or dressing to control bleeding ✓

Q56 Professional Ability

If a patient's tidal volume decreases but their respiratory rate remains the same, what is the most likely effect on alveolar ventilation and why?

- A. Alveolar ventilation increases due to less dead space
- B. Alveolar ventilation increases due to increased oxygen uptake
- C. Alveolar ventilation remains unchanged
- D. Alveolar ventilation decreases due to reduced fresh air reaching alveoli ✓

Q57 Professional Ability

Why is it necessary to conduct in-use tests on disinfectants solutions in hospitals?

- A. To ensure microbial killing ability during routine use ✓
- B. To compare with international standards only
- C. To make sure the solution smells pleasant
- D. To check if the solution changes color

Q58 Professional Ability

Why is it important to avoid hemolysis during blood specimen collection for biochemistry tests?

- A. Hemolysis increases plasma volume
- B. Hemolysis prevents clot formation
- C. Hemolysis can release intracellular contents, altering test results ✓
- D. Hemolysis reduces the risk of infection

Q59 Professional Ability

Which combination of factors is most likely to increase the risk of bacterial contamination in collected blood?

- A. Proper labeling and immediate refrigeration
- B. Improper skin preparation and prolonged collection time ✓
- C. Use of sterile gloves and rapid collection
- D. Donor fasting and high hemoglobin levels

Q60 Professional Ability

Why is it important to use a blank solution when calibrating a colorimeter?

- A. To test the durability of the cuvette
- B. To increase the sensitivity of the colorimeter
- C. To correct for absorbance due to solvents and reagents ✓
- D. To enhance the color intensity of the sample



Q61 Professional Ability

A pus aspirate was received for culture. Which of the following is the correct step before Gram staining?

- A. Directly prepare smear** ✓
- B. Use the anaerobic swab to make gram stain
- C. Mix with saline, centrifuge, and stain the pellet
- D. Inoculate culture media first, then prepare smear from residual aerobic pus sample

Q62 Professional Ability

Which component inside an autoclave ensures even distribution of steam for effective sterilization?

- A. The water reservoir lid
- B. The perforated tray or rack** ✓
- C. The outer insulation layer
- D. The control panel

Q63 Professional Ability

What is the main function of the myelin sheath in the nervous system?

- A. To connect neurons to muscles
- B. To speed up signal transmission** ✓
- C. To protect the neuron cell body
- D. To generate nerve impulses

Q64 Professional Ability

What is the main function of the heart in the cardiovascular system?

- A. To produce hormones
- B. To filter waste
- C. To pump blood** ✓
- D. To digest food

Q65 Professional Ability

Which body fluid is commonly collected for the diagnosis of bacterial meningitis?

- A. Synovial fluid
- B. Ascitic fluid
- C. Cerebrospinal fluid** ✓
- D. Pleural fluid

Q66 Professional Ability

A patient presents with pale, bulky, foul-smelling stool that floats. This presentation is associated with which abnormality?

- A. Pancreatic enzyme deficiency
- B. Excess fat (steatorrhea) in the stool** ✓
- C. Presence of undigested muscle fibers (creatorrhea)
- D. Increased bilirubin

Q67 Professional Ability

A laboratory technician needs to transfer 10 mL of solution accurately and then dispense it completely by blowing out the last drop. Which pipette should be used for this procedure?

- A. Pasteur pipette
- B. Mohr pipette
- C. Serological pipette** ✓
- D. Volumetric pipette

Q68 Professional Ability

Which laboratory equipment is essential for measuring the absorbance of solutions to determine concentration, and what principle does it operate on?

- A. Colorimeter; it operates on the Beer-Lambert Law.** ✓
- B. Microscope; operates on magnification.
- C. Centrifuge; operates on centrifugal force.
- D. Spectrophotometer; operates on the law of reflection.

Q69 Professional Ability

According to standard operating procedures (SOP), what is the maximum recommended storage duration for whole blood at 2-6°C to ensure safety and efficacy?

- A. 21 days
- B. 35 days** ✓
- C. 45 days
- D. 14 days

Q70 Professional Ability

A doctor advised platelet concentrate transfusion for a patient with thrombocytopenia following chemotherapy. What is the most likely reason for this intervention?

- A. To enhance immunity
- B. To correct electrolyte imbalance
- C. To reduce the risk of bleeding** ✓
- D. To treat anemia



Q71 Professional Ability

When preparing a phosphate buffer, why is it important to use both monobasic and dibasic sodium phosphate?

- A. To prevent the precipitation of sodium ions
- B. To achieve the desired pH by balancing acidic and basic components ✓
- C. To increase the solubility of phosphate salts
- D. To ensure the buffer solution remains colorless

Q72 Professional Ability

A microbiologist performs Gram staining on a mixed culture but omits the iodine step. What is the likely result observed under the microscope?

- A. Gram-positive cells are purple and Gram-negative cells are pink
- B. Gram-positive cells are pink and Gram-negative cells are purple
- C. Both Gram-positive and Gram-negative cells appear purple
- D. Both Gram-positive and Gram-negative cells appear pink ✓

Q73 Professional Ability

A patient presents with high serum urea and normal serum creatinine. What does this most likely indicate?

- A. Post-renal obstruction
- B. Acute tubular necrosis
- C. Pre-renal azotemia ✓
- D. Chronic kidney disease

Q74 Professional Ability

Which of the following is a key ethical principle that must be upheld in laboratory medicine?

- A. Ensuring convenience in sample collection procedures
- B. Achieving technical accuracy in test performance
- C. Maximizing profitability of laboratory services
- D. Maintaining confidentiality of patient information ✓

Q75 Professional Ability

What is the preferred thickness for frozen sections, and which adhesive is commonly used for fixed sections during microtomy?

- A. 15-20 microns and gelatin
- B. 50-70 microns and 10% formalin
- C. 4-10 microns and albumin ✓
- D. 20-30 microns and paraffin wax

Q76 Professional Ability

Which of the following is the most suitable preservative for maintaining the cellular integrity of urine samples for microscopic examination in a clinical laboratory?

- A. Alcohol
- B. Formalin ✓
- C. Distilled water
- D. Sodium chloride

Q77 Professional Ability

What is the main reason basic fuchsin is preferred over safranin as a counterstain for gram-negative bacteria?

- A. Safranin stains both gram-positive and gram-negative bacteria equally
- B. Basic fuchsin is the only counterstain approved for clinical use
- C. Basic fuchsin stains gram-negative organisms more intensely than safranin ✓
- D. Basic fuchsin is less expensive than safranin

Q78 Professional Ability

Which of the following features of a triple blood collection pack enables the separation of plasma, red blood cells, and platelets from a single blood donation?

- A. A primary collection bag with increased storage capacity
- B. Multiple sterile satellite bags connected to the main collection bag ✓
- C. An integrated leukocyte reduction filter within the tubing
- D. Dual venipuncture needles to allow parallel component collection

Q79 Professional Ability

Which combination best explains why laboratory safety rules must be strictly followed by students during experiments?

- A. To impress the instructor and finish experiments faster
- B. To avoid cleaning up afterwards
- C. To prevent accidents and minimize exposure to hazardous materials ✓
- D. To finish experiments faster to prevent accidents



Q80 Professional Ability

Which of the following is the possible cause of performing sterility testing on culture media before use in microbiological laboratories?

- A. To check the temperature stability
- B. Ensuring the media does not contain contaminating microorganisms ✓
- C. To measure the nutrient composition
- D. To ensure the colour is consistent

Q81 Professional Ability

pH is defined as:

- A. A measure of how the colour of a substance changes
- B. A measure of how the temperature of a substance changes
- C. A measure of how acidic or basic a substance is ✓
- D. A measure of how the volume of a substance changes

Q82 Professional Ability

The lungs are located in which cavity?

- A. Abdominal cavity
- B. Thoracic cavity ✓
- C. Pelvic cavity
- D. Cranial cavity

Q83 Professional Ability

Which type of anemia is most likely to develop in a patient with chronic blood loss?

- A. Sickle cell anemia
- B. Pernicious anemia
- C. Aplastic anemia
- D. Iron deficiency anemia ✓

Q84 Professional Ability

Which of the following species is most likely to be identified by Neisser's stain?

- A. Salmonella species
- B. Escherichia coli
- C. Microthrix parvicella ✓
- D. Mycobacterium tuberculosis

Q85 Professional Ability

Which stain is most appropriate for detecting acid-fast bacilli in tissue sections?

- A. Giemsa
- B. Cresyl Violet
- C. Masson's Trichrome
- D. Ziehl-Neelsen ✓

Q86 Professional Ability

A blood donor reports recent exposure to hepatitis B virus (HBV). What is the most appropriate action according to blood donor screening guidelines?

- A. Test the blood and collect if negative
- B. Ignore the exposure and continue
- C. Proceed with blood collection without considering donor history
- D. Defer the donor from donating blood ✓

Q87 Professional Ability

What is the recommended angle for needle insertion during venipuncture in blood collection for blood banking?

- A. 45 to 60 degrees
- B. 0 to 10 degrees
- C. 15 to 30 degrees ✓
- D. 60 to 75 degrees

Q88 Professional Ability

Which of the following is the most common human blood group system used in blood banking?

- A. Rh system
- B. Lewis system
- C. ABO system ✓
- D. MNS system

Q89 Professional Ability

What is the primary specimen collected for blood glucose estimation?

- A. Sweat
- B. Whole blood
- C. Plasma ✓
- D. Urine



Q90 Professional Ability

Which precaution is most important to protect healthcare workers during use of glutaraldehyde as a disinfectant in a clinical setting?

- A. Use only glass containers for glutaraldehyde
- B. Ensure adequate room ventilation due to toxic vapors ✓
- C. Store glutaraldehyde in direct sunlight
- D. Dilute glutaraldehyde with tap water

Q91 Professional Ability

Which of the following bones is NOT a component of nasal bones?

- A. Vomer bone ✓
- B. Ethmoid bone
- C. Frontal bone
- D. Maxilla

Q92 Professional Ability

Which of the following best defines disinfection in a clinical laboratory setting?

- A. The process of eliminating most pathogenic microorganisms on inanimate objects ✓
- B. The use of antibiotics to treat infections
- C. The complete removal of all forms of microbial life
- D. The process of washing hands with soap and water to aid in microbial growth

Q93 Professional Ability

A laboratory technician observes clusters of spherical bacteria under the microscope. What is the most appropriate term to describe their arrangement and shape?

- A. Streptobacilli
- B. Diplococci
- C. Vibrio
- D. Staphylococci ✓

Q94 Professional Ability

While separating serum and plasma, what is the main difference in the collection tube?

- A. Both tubes contain no additives
- B. Serum tubes contain no anticoagulant, while plasma tubes contain anticoagulants ✓
- C. Serum tubes contain anticoagulants, while plasma tubes contain none
- D. Both tubes contain anticoagulants

Q95 Professional Ability

Which of the following equipment is essential for creating a sterile environment while transferring microorganisms in a microbiology lab?

- A. Autoclave
- B. Laminar airflow cabinet ✓
- C. Hot air oven
- D. Spectrophotometer

Q96 Professional Ability

What is a potential hazard caused by spattering from strong acids, caustic materials, and oxidizing agents in the laboratory?

- A. Chemical burns ✓
- B. Electrical shock
- C. Biological contamination
- D. Fire hazard

Q97 Professional Ability

Which of the following is the most appropriate medium for initial inoculation of a throat swab sample for bacterial culture?

- A. Blood agar ✓
- B. Chocolate agar
- C. MacConkey agar
- D. Sabouraud agar

Q98 Professional Ability

What substance is primarily measured in the serum to evaluate kidney excretory function?

- A. Bilirubin
- B. Creatinine ✓
- C. Lipase
- D. Hemoglobin

Q99 Professional Ability

Which type of anaemia is most commonly associated with iron deficiency?

- A. Normochromic macrocytic anaemia
- B. Microcytic hypochromic anaemia ✓
- C. Normochromic normocytic anaemia
- D. Aplastic anaemia



Q100 Professional Ability

Which of the following enzymes is most specific for diagnosing hepatocellular injury in liver function tests?

A. Aspartate aminotransferase (AST)

B. Alanine aminotransferase (ALT) ☒

C. Gamma-glutamyl transferase (GGT)

D. Alkaline phosphatase (ALP)

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General Ability

30 Questions • Answer Key

Q1 General Ability

In a division sum, the divisor is 20 times the quotient and 8 times the remainder. If the remainder is 50, what is the dividend?

- A. 8100
- B. 7950
- C. 8050
- D. 8150

Q2 General Ability

Which of the following Articles of the Indian Constitution are concerned with the protection of environment and wildlife?

- A. Article 41A
- B. Article 48A
- C. Article 42A
- D. Article 38A

Q3 General Ability

G, H, I, J, M, N and O are sitting around a circular table facing the centre of the table.
O sits fourth to the left of J. I sits fourth to the right of N.
Only two people sit between J and N when counted from the left of J. M is not an immediate neighbour of I or J. G is not an immediate neighbour of M.
Who sits third to the right of H?

- A. M
- B. G
- C. I
- D. O

Q4 General Ability

Read the given statements carefully and select the correct option.

Statement-I: In saturated carbon compounds, valency of all the atoms is satisfied by single bonds between them.
Statement-II: Saturated carbon compounds are normally not very reactive.

- A. Both the statements are false.
- B. Both the statements are true.
- C. Statement-I is false but statement-II is true.
- D. Statement-I is true but statement-II is false.

Q5 General Ability

Which process leads to the formation of a positive ion?

- A. Splitting of molecules
- B. Loss of electrons
- C. Sharing of electrons
- D. Gain of electrons

Q6 General Ability

During free fall, when an object is released from rest, how does the gravitational force of the Earth affect its motion?

- A. It maintains the object's velocity
- B. It decreases the object's velocity
- C. It stops the object instantly
- D. It increases the object's velocity

Q7 General Ability

Ramu starts from his house; moves towards the east; walks 90 m; turns right and moves 20 m. He turns right again and moves 30 m. Finally, he turns right and walks 100 m. In which direction should he walk to reach his house again?

- A. North-east
- B. North-west
- C. South-west
- D. South-east

Q8 General Ability

A stone is thrown vertically downwards with a speed of 5 m/s from the top of a tower. What will be its velocity after 2 seconds? (Take $g = 10 \text{ m/s}^2$)

- A. 25 m/s
- B. 20 m/s
- C. 15 m/s
- D. 30 m/s



Q9 General Ability

When aiming for yield improvement, why is it important to select crop varieties suited to the local climate?

- A. To increase the size of farm equipment needed
- B. To reduce labor costs
- C. To prevent crop failure and ensure maximum productivity ✓
- D. To minimize fertilizer use

Q10 General Ability

What is the primary objective of launching India's first National Biofoundry Network under the BioE3 policy in August 2025?

- A. Skill training
- B. Biomanufacturing ✓
- C. Gene editing
- D. Wildlife study

Q11 General Ability

In 2025, the Central Excise (Amendment) Bill aimed to amend legislation originally enacted in which year?

- A. 1944 ✓
- B. 1950
- C. 2000
- D. 1985

Q12 General Ability

Which river forms the Dhuandhar Waterfall in Madhya Pradesh?

- A. Chambal
- B. Betwa
- C. Narmada ✓
- D. Ken

Q13 General Ability

Find the median of the following data.

45, 50, 55, 12, 18, 25, 30, 32, 40

- A. 40
- B. 30
- C. 25
- D. 32 ✓

Q14 General Ability

A sells a Laptop to B at a loss of 25% and B sells the laptop to C at a profit of 40%. If C purchased the laptop for ₹4,998, then what was the cost price (in ₹) of the laptop for A?

- A. 4,760 ✓
- B. 4,699
- C. 4,673
- D. 4,658

Q15 General Ability

A doctor uses a stethoscope to listen to a patient's heartbeat. How does the stethoscope help the doctor hear faint heart sounds more clearly?

- A. It collects and transmits sound waves efficiently from the chest to the ears ✓
- B. It filters out high-frequency noise
- C. It changes sound waves into light signals
- D. It amplifies sound electronically

Q16 General Ability

Which of the following term is used in cricket when a batsman is dismissed without scoring any runs in a cricket match?

- A. Duck ✓
- B. Boundary
- C. Over
- D. Century

Q17 General Ability

If 1 is subtracted from each odd digit and 1 is added to each even digit in the number 843675432925 what will be the sum of the digits which are third from the left and second from the right in the new number thus formed?

- A. 3
- B. 2
- C. 4
- D. 5 ✓

Q18 General Ability

Vaccinations are given to farm animals primarily to protect them from which of the following?

- A. Heat stress
- B. External parasites only
- C. Major viral and bacterial diseases ✓
- D. Nutritional deficiencies



Q19 General Ability

Which physiographic region of the Northern Plains of India is characterised by a wet, marshy, and swampy surface and lies immediately south of the Bhabar belt due to the re-emergence of rivers?

- A. Khadar
- B. Bhangar
- C. Terai
- D. Karewas

Q20 General Ability

Based on the English alphabetical order, three of the following four letter cluster pairs are alike in a certain way and thus form a group. Which is the one that does not belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster)

- A. BL – TY
- B. EO-VB
- C. LV – CI
- D. RB-IO

Q21 General Ability

The Eighth Schedule of the Indian Constitution deals with which of the following subjects?

- A. Distribution of powers between the Union and the States
- B. Administration of Scheduled Areas
- C. Allocation of seats in the Rajya Sabha
- D. Languages recognised by the Constitution

Q22 General Ability

The amendment to the Karnataka Land Reforms Act, 1961, and the Karnataka Land Revenue Act, 1964, is known as:

- A. Karnataka Land Reforms and Certain Other Law (Amendment) Act, 2025
- B. Karnataka Land Reforms and Revenue Law (Amendment) Act, 2025
- C. Karnataka Land Reforms (Amendment) Act, 2025
- D. Karnataka Land Revenue Law (Amendment) Act, 2025

Q23 General Ability

Refer to the following letter series and answer the question. Counting to be done from left to right.

(Left) C B A S N U C O M D K I F J H A I P B E B H (Right)

How many such consonant are there each of which is immediately preceded by a consonant and also immediately followed by a consonant?

- A. 3
- B. 4
- C. 1
- D. 2

Q24 General Ability

What was the role of ICAR during the Green Revolution?

- A. Distributing land titles in villages
- B. Monitoring food subsidies for farmers
- C. Conducting crop trials and research
- D. Regulating the price of rural fertilisers

Q25 General Ability

Why are Indian poultry breeds cross-bred with exotic breeds to improve productivity?

- A. Alter genetics to reduce feed needs only of birds without considering their adaptability.
- B. Produce genetically identical birds, thereby eliminating variation in the flock.
- C. Create entirely new bird species to replace traditional poultry farming practices.
- D. Developing poultry with high yield and local adaptability.

Q26 General Ability

Which of the following factors will increase the strength of the magnetic field at the center of a current-carrying circular loop?

- A. Changing the loop's plane from horizontal to vertical
- B. Decreasing the current through the loop
- C. Increasing the radius of the loop
- D. Increasing the number of turns of the loop



Q27 General Ability

Under which policy were Indian rulers required to dissolve their own armed forces and accept the British East India Company in their territories, and bear the cost of maintaining those forces?

- A. Policy of Paramountcy
- B. **Subsidiary Alliance** ✓
- C. Policy of Neutrality
- D. Policy of Mercantilism

Q28 General Ability

Two taps can fill a cistern in 3 hours and 21 hours respectively. A third tap can empty it in 3 hours. How long (in hours) will it take to fill two-third of the empty cistern, if all of them are opened together?

- A. 28
- B. 56
- C. 42
- D. **14** ✓

Q29 General Ability

2h

- A. **$\frac{1}{2}$** ✓
- B. $\frac{1}{16}$
- C. $\frac{1}{8}$
- D. $\frac{1}{4}$

Q30 General Ability

Select the option that completes the following chemical reaction by giving the formula of the products X and Y.



- A. **X = 2CH₃CH₂O-Na⁺; Y = H₂** ✓
- B. X = 2CH₃O-Na⁺; Y = H₂
- C. X = 2CH₃CH₂O-Na⁺; Y = O₂
- D. X = CH₃CH₂O-Na⁺; Y = H₂O

Professional Ability

70 Questions • Answer Key

Q31 Professional Ability

Which of the following is a common complication associated with poorly managed gestational diabetes mellitus?

- A. **Macrosomia** ✓
- B. Placenta previa
- C. Hyperemesis
- D. Preterm labor

Q32 Professional Ability

A nurse is teaching about the iron content in breast milk. What is the typical amount of iron found in 100 ml of mature breast milk?

- A. 2.5 to 4.5 milligrams iron per 100 ml
- B. **0.03 to 0.07 milligrams iron per 100 ml** ✓
- C. 5.6 to 8.4 milligrams iron per 100 ml
- D. 0.8 to 1.8 milligrams iron per 100 ml



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Q33 Professional Ability

During a health education session, which strategy is most effective in promoting adherence to a therapeutic diet for diabetic patients?

- A. Focusing only on calorie restriction
- B. Involving patients in meal planning ✓
- C. Providing complex dietary charts
- D. Recommending abrupt dietary changes

Q34 Professional Ability

Which of the following is a common cause of physiological jaundice in a newborn?

- A. Genetic disorder
- B. Immature liver function ✓
- C. Vitamin deficiency
- D. Liver infection

Q35 Professional Ability

A nurse is caring for a confused elderly patient. What environmental modification should the nurse prioritize to promote safety?

- A. Locking the door at all times
- B. Ensuring clear pathways and adequate lighting ✓
- C. Placing the bed near the window
- D. Removing all personal items from the room

Q36 Professional Ability

A nurse encounters four patients after a mass casualty event. Who should be given the highest triage priority?

- A. A patient with severe respiratory distress ✓
- B. A patient with no pulse or respiration
- C. A patient with a fractured arm
- D. A patient with minor lacerations

Q37 Professional Ability

One of the important functions of plasma proteins includes:

- A. Oxygen transport
- B. Nutrient absorption
- C. Regulating function of heart
- D. Coagulation of blood ✓

Q38 Professional Ability

Which type of communication involves using spoken words?

- A. Verbal communication ✓
- B. Written communication
- C. Symbolic communication
- D. Nonverbal communication

Q39 Professional Ability

Which action by a nurse contributes to a therapeutic environment?

- A. Withholding painful information
- B. Focusing on medication administration
- C. Listening to patient concerns ✓
- D. Rushing to complete procedures

Q40 Professional Ability

In personality development, how does 'will' typically interact with 'character'?

- A. Will shapes character independently of values.
- B. Will enables one to act in alignment with their character. ✓
- C. Will always acts independently of character.
- D. Character prevents the expression of will.

Q41 Professional Ability

A patient arrives with severe burns. After ensuring a patent airway, what is the next step in the emergency management?

- A. Cover the burns with sterile sheets
- B. Provide intravenous analgesics
- C. Administer broad-spectrum antibiotics
- D. Initiate fluid resuscitation ✓

Q42 Professional Ability

Which gland in the endocrine system is primarily responsible for regulating metabolism through the secretion of its main hormone?

- A. Pancreas
- B. Pineal gland
- C. Adrenal gland
- D. Thyroid gland ✓



Q43 Professional Ability

When creating objectives for a health education program, which characteristic is most important to ensure measurable outcomes?

A. Specificity



B. Flexibility

C. Generalization

D. Ambiguity

Q44 Professional Ability

In managing a child with Type 1 Diabetes Mellitus, which combination is essential for effective care?

A. Antibiotics and bed rest

B. Insulin therapy and blood glucose monitoring



C. Iron supplements and increased hydration

D. Physical therapy and corticosteroids

Q45 Professional Ability

A hospital researcher wants to compare pain management strategies across different departments and ensures equal representation from surgery, pediatrics, and oncology. Which sampling technique should be employed?

A. Convenience sampling

B. Stratified sampling



C. Simple random sampling

D. Snowball sampling

Q46 Professional Ability

A community health nurse is evaluating the effectiveness of a family welfare program in a rural area. Which approach best demonstrates application of demographic data to improve contraceptive uptake?

A. Encouraging immunization drives for newborns

B. Organizing nutrition camps for adolescent girls

C. Distributing educational pamphlets to all households

D. Identifying age-specific fertility rates to target interventions

**Q47 Professional Ability**

In community health nursing, what is the nurse's role when implementing specialized services under a government health insurance scheme?

A. Providing only curative care

B. Facilitating access to scheme benefits and coordinating referrals



C. Focusing exclusively on administrative tasks

D. Limiting care to immunizations

Q48 Professional Ability

When managing minor ailments in the community, which two key actions should a GNM nurse take according to the standing instructions?

A. Assess symptoms and provide appropriate care



B. Diagnose and treat only with antibiotics

C. Ignore standing instructions and use personal judgment

D. Schedule advanced diagnostic tests

Q49 Professional Ability

Which intervention is most crucial when providing therapeutic care to an unconscious patient to prevent aspiration?

A. Encouraging oral intake

B. Using a soft pillow under the neck

C. Placing the patient in lateral recumbent position



D. Placing the patient in a supine position

Q50 Professional Ability

Which lifestyle modification is recommended during preconception care?

A. Moderate caffeine intake

B. Increased sun exposure

C. Avoidance of smoking



D. Regular handwashing



Q51 Professional Ability

Which action best demonstrates an individual's responsibility to promote social justice in healthcare?

- A. Prioritizing health care facilities in private hospitals of urban areas.
- B. Giving attention to provide high-quality care to selected patients from society.
- C. Advocating for equitable access and treatment for all patient populations. ✓
- D. Reporting only personal grievances

Q52 Professional Ability

A family health nurse is planning interventions for a household with limited financial resources and multiple health issues. Which approach best reflects the integration of the nursing process into the family health care plan?

- A. Prioritize interventions based on the most urgent family needs ✓
- B. Implement all recommended interventions simultaneously
- C. Refer the family to external agencies for all services
- D. Focus solely on the care of the chronically ill member

Q53 Professional Ability

During the evaluation of a school health ambassador program, the nurse notices inconsistent participation among students. What is the most effective strategy to address this issue?

- A. Relying only on classroom teachers for motivation
- B. Assigning mandatory health tasks to all students
- C. Collaborating with student leaders to increase engagement ✓
- D. Providing incentives only to high-performing ambassadors

Q54 Professional Ability

A 45-year-old woman undergoes a total abdominal hysterectomy with bilateral salpingo-oophorectomy for ovarian cancer. Two weeks later, she reports sudden onset of hot flashes and night sweats. What is the most likely cause of her symptoms?

- A. Abrupt loss of ovarian hormone production following surgery ✓
- B. Delayed effect of preoperative chemotherapy regimen
- C. Gradual reduction in estrogen due to aging process
- D. Increased adrenal gland hormone secretion after surgery

Q55 Professional Ability

What is the most effective position to promote lung expansion in patients with impaired respiratory function?

- A. High Fowler's position ✓
- B. Prone position
- C. Trendelenburg position
- D. Lithotomy position

Q56 Professional Ability

What is the primary purpose of Gram staining in microbiology?

- A. To sterilize bacterial samples
- B. To differentiate bacteria into Gram-positive and Gram-negative ✓
- C. To measure bacterial growth
- D. To determine bacterial shape

Q57 Professional Ability

A nurse manager notices that actual expenditures for wound care supplies have consistently exceeded the budgeted amount for three consecutive quarters. Which of the following is the most appropriate immediate action?

- A. Analyze usage patterns and adjust the budget ✓
- B. Request additional funds without analysis
- C. Immediately cut supply orders to stay within budget
- D. Ignore the trend and maintain the current budget

Q58 Professional Ability

According to NFHS vital statistics, which indicator most directly reflects improvements in child health services?

- A. Decrease in the crude birth rate
- B. Rise in the population growth rate
- C. Growth in the number of private hospitals
- D. Increase in immunization coverage ✓

Q59 Professional Ability

During a nutrition survey, a nurse identifies widespread vitamin A deficiency among preschoolers. Which international organization would most likely support a large-scale supplementation campaign?

- A. International Red Cross Society
- B. Food and Agriculture Organization
- C. United Nations Children's Fund ✓
- D. World Health Organization



Q60 Professional Ability

During a gynecological assessment, a nurse observes erythema, edema, and a thick, curd-like vaginal discharge. Which organism is most likely responsible for these findings?

- A. Trichomonas vaginalis as the infection
- B. Neisseria gonorrhoeae as the organism
- C. Gardnerella vaginalis as the pathogen
- D. Candida albicans as the causative agent

Q61 Professional Ability

Which social factor has recently emerged as a significant challenge in ensuring child mental health?

- A. Sedentary lifestyle
- B. Peer pressure
- C. Improved educational status of parents
- D. Rising exposure to social media

Q62 Professional Ability

Which of the following is a correct sign of a proper latch during breastfeeding?

- A. Baby's mouth covers most of the areola
- B. Baby's lips are tightly closed
- C. Baby's mouth covers only the nipple
- D. Baby is sucking only the lower lip

Q63 Professional Ability

A patient with severe chest trauma is unable to ventilate effectively. Which of the following best explains the immediate physiological consequence regarding gas exchange?

- A. Reduced oxygen diffusion from alveoli to blood
- B. Enhanced carbon dioxide release from hemoglobin
- C. Increased bicarbonate reabsorption in kidneys
- D. Improved oxygen affinity for hemoglobin

Q64 Professional Ability

Which step is performed first in the process of in vitro fertilization?

- A. Oocyte retrieval
- B. Sperm injection
- C. Embryo transfer
- D. Controlled ovarian stimulation

Q65 Professional Ability

A child recently diagnosed with stage IV renal cancer is scheduled for a palliative consultation. When the nurse enters the room, the parent says, "There must be a mistake with the pathology report. My child always been healthy. I want a re-test at a different hospital." Which stage of DABDA is the parent exhibiting?

- A. Denial
- B. Bargaining
- C. Acceptance
- D. Displacement

Q66 Professional Ability

Which of the following is a key advantage of using simulation as a clinical teaching method in nursing education?

- A. It provides a safe environment for practicing complex procedures without risk to patients.
- B. It replaces the need for any actual clinical experience.
- C. It guarantees perfect performance in real-life situations.
- D. It limits student interaction and teamwork.

Q67 Professional Ability

When planning care for a pediatric patient, which parameter should the nurse prioritize to ensure safe drug dosing?

- A. Nature of the disease
- B. Pharmacokinetics of the drug
- C. Built of the patient
- D. Weight of the child

Q68 Professional Ability

Following a newborn death, a midwife is involved in the review process. What action demonstrates ethical leadership in addressing systemic issues?

- A. Facilitating open discussion to identify root causes
- B. Concealing systemic problems to avoid repercussions
- C. Assigning blame to individuals without analysis
- D. Restricting feedback from multidisciplinary teams



Q69 Professional Ability

Which joint type is found between the vertebral bodies, allowing limited movement?

- A. Saddle joint
- B. Ball and socket joint
- C. Pivot joint
- D. Cartilaginous symphysis joint ✓

Q70 Professional Ability

Which is NOT a function of the planning stage in nursing administration?

- A. Identifying goals for the unit
- B. Setting priorities for activities
- C. Supervising staff during procedures ✓
- D. Outlining steps to reach objectives

Q71 Professional Ability

What is a key aspect of family health care services?

- A. Prevention of diseases in all family members ✓
- B. Focusing on sick individuals at a time
- C. Focusing on treatment of existing diseases only
- D. Focusing on mental health issues only

Q72 Professional Ability

What is a common misconception regarding suicide risk in patients who start feeling better after depression?

- A. They are at reduced risk and do not require monitoring. ✓
- B. They have no risk if they deny suicidal thoughts.
- C. Their risk is the same as before treatment.
- D. They are at increased risk and need close monitoring.

Q73 Professional Ability

Health education delivered through television and radio is an example of which approach?

- A. Individual approach
- B. Mass approach ✓
- C. Community approach
- D. Counseling approach

Q74 Professional Ability

A patient presents with a torn ligament after an athletic injury. Which tissue property best explains the slow healing process in this structure?

- A. Elastic cartilage allows flexibility in joints
- B. Simple squamous epithelium promotes rapid diffusion
- C. Dense regular connective tissue has limited blood supply ✓
- D. Adipose tissue provides energy storage

Q75 Professional Ability

In the management of pelvic infections such as vaginitis, which two interventions are typically combined for effective treatment?

- A. Antibiotic therapy and patient education on hygiene ✓
- B. Chemotherapy and radiation
- C. Physical therapy and dietary changes
- D. Blood transfusion and surgery

Q76 Professional Ability

A 5-year-old child is exposed to measles at school. The healthcare provider recommends administration of the measles vaccine within 72 hours. Which immunoprophylactic principle is being applied in this scenario?

- A. Cell-mediated immunity to destroy pathogens
- B. Active immunization to prevent disease development ✓
- C. Passive immunization to treat chronic infection
- D. Autoimmune response to eliminate antigens

Q77 Professional Ability

The study of sociology is important because of all the following reasons **EXCEPT**:

- A. It equips nurses with cultural competence
- B. Sociology helps in holistic patient understanding
- C. It helps nurses in improving communication and relationships
- D. It focuses only on bio-medical model of care ✓



Q78 Professional Ability

During a health education workshop, the facilitator wants to clarify misconceptions regarding vaccination. Which communication strategy is most effective for engaging participants in critical thinking and reflection?

- A. Showing a recorded testimonial video
- B. Facilitating an open question and answer session ✓
- C. Distributing printed vaccine schedules
- D. Reading statistics aloud from a report

Q79 Professional Ability

Which development type deals with managing and expressing feelings?

- A. Social development
- B. Emotional development ✓
- C. Cognitive development
- D. Physical development

Q80 Professional Ability

A post operative patient is receiving dextrose 5% and 0.45 normal saline at 160 ml/hour. The nurse notices puffiness, weight gain of 2 kg and hypotension with complaints of muscle cramps and confusion. The serum sodium level is 126 mEq/L. Which of the following is the most likely cause of these findings?

- A. Excessive dietary sodium and hyerglycemia
- B. Hyperglycemia and hyponatremic dehydration
- C. Dehydration and Potassium deficiency
- D. Fluid overload and hyponatremia ✓

Q81 Professional Ability

You are assessing a 7-month-old infant. Which of the following findings would be considered the **most** significant red flag for neurological dysfunction?

- A. Absence of the moro reflex
- B. Persistence of the palmar grasp reflex ✓
- C. Presence of gag reflex
- D. Presence of a positive Babinski sign

Q82 Professional Ability

Which interview technique best encourages a patient to elaborate on their feelings during a mental health assessment?

- A. Yes/no questioning
- B. Leading questions
- C. Open-ended questioning ✓
- D. Closed-ended questioning

Q83 Professional Ability

A nurse is teaching new parents about the benefits of rooming-in. Which statement by the parents shows an accurate understanding?

- A. Rooming-in allows us to recognize and respond to our baby's needs quickly ✓
- B. Rooming-in requires us to have the baby in the nursery overnight
- C. Rooming-in prevents us from having contact with our baby
- D. Rooming-in means we only see our baby during visiting hours

Q84 Professional Ability

A patient develops a urinary tract infection two days after being admitted to the nursing home for surgery. Which of the following best describes this infection?

- A. Chronic suppurative child onset infection
- B. Opportunistic infection before admission
- C. Hospital-acquired infection after admission ✓
- D. Community-acquired infection before admission

Q85 Professional Ability

During a ward audit, it is found that medication errors have increased over the past month. What is the most appropriate initial step for the nurse administrator to address this issue?

- A. Send a memo warning staff of disciplinary action
- B. Conduct a root cause analysis meeting with nursing staff ✓
- C. Replace all medication carts in the unit immediately
- D. Increase the frequency of nursing rounds in the ward



Q86 Professional Ability

Which of the following best describes the purpose of maintaining a minimum stock level for critical ward supplies?

- A. To prevent stock-outs** ✓
- B. To minimize overall supply costs
- C. To handle overstock situations
- D. To reduce storage space requirements

Q87 Professional Ability

Which of the following best defines the 'dynamics of behaviour' in psychology?

- A. The visible actions of individuals
- B. Underlying forces influencing human actions** ✓
- C. The genetic traits only
- D. The social rules people follow

Q88 Professional Ability

Persistence of which reflex beyond 6 months may indicate a neurological abnormality?

- A. Parachute reflex
- B. Moro reflex** ✓
- C. Corneal reflex
- D. Babinski reflex

Q89 Professional Ability

Which of the following is a common type of congenital uterine malformation?

- A. Bicornuate uterus** ✓
- B. Endometriosis
- C. Polycystic ovary syndrome
- D. Fibroid uterus

Q90 Professional Ability

In forensic psychiatry, following nursing standards helps to:

- A. Encourage nurses to make decisions without consulting guidelines.
- B. Reduce risk of legal liability for nurses and institutions.** ✓
- C. Prioritize personal opinions over evidence-based practice.
- D. Allow deviations from ethical care based on personal beliefs.

Q91 Professional Ability

An instructor wants to assess students' ability to prioritize nursing interventions in complex scenarios. Which method aligns best with higher-order thinking skills in Bloom's Taxonomy?

- A. Lecture with factual recall questions
- B. Group reading with guided summaries
- C. Demonstration of basic procedures
- D. Simulation with role-play scenarios** ✓

Q92 Professional Ability

A patient with a peptic ulcer is prescribed a proton pump inhibitor and advised to avoid NSAIDs. Which rationale best explains this combined approach?

- A. To improve nutrient absorption as ulcer reduces absorption
- B. To increase stomach acid for adequate digestion
- C. To promote ulcer healing and prevent further irritation** ✓
- D. To prevent dehydration due to diarrhea

Q93 Professional Ability

Which of the following is the first step in preparing a health education plan?

- A. Selecting media
- B. Preparing evaluation tools
- C. Assessing community needs** ✓
- D. Choosing resource persons

Q94 Professional Ability

During a morning assessment, a nurse notes that a patient has cool, clammy skin, a weak pulse, and decreased urine output. What is the most appropriate nursing action based on these findings?

- A. Reposition the patient to a high Fowler's position
- B. Report possible hypovolemic shock to the physician** ✓
- C. Encourage increased oral fluid intake rapidly
- D. Apply warm blankets and increase room temperature



Q95 Professional Ability

If a sick newborn is unable to maintain body temperature, which nursing measure is most effective to prevent hypothermia?

A. Use of radiant warmer or incubator



B. Swaddling with thin blanket

C. Bathing frequently

D. Placing near open window

Q96 Professional Ability

During a quality assurance review, incomplete nursing records are identified. What is the most appropriate interpretation by the nurse administrator?

A. Patient care outcomes are not significantly influenced

B. Documentation standards may be inconsistently followed



C. Number of nursing staffs are sufficient for patient care

D. Verbal communication adequately replaces written records

Q97 Professional Ability

In planning a health promotion activity for a school, which two concepts should the nurse integrate for effective results?

A. Nutrition education and physical activity promotion



B. Medication prescription and treating chronic illness

C. Parent teacher interaction and academic assessment

D. Water purification and energy conservation

Q98 Professional Ability

If a child misses the second dose of DPT, what is the recommended action according to the immunization schedule?

A. Restart the entire DPT series

B. Wait until the next scheduled booster

C. Skip the missed dose entirely

D. Administer the missed dose as soon as possible



Q99 Professional Ability

When providing oral care to an unconscious patient, what two key actions should be combined to ensure safety and cleanliness?

A. Rinsing the mouth with enough water

B. Using mouthwash only and keeping the head flat

C. Placing the patient in a side-lying position and using a soft toothbrush



D. Using a hard-bristled brush and sitting the patient upright

Q100 Professional Ability

When caring for a patient with hypocalcemia, which symptom should the nurse closely observe?

A. Dry skin

B. Excessive thirst

C. Slow pulse

D. Muscle twitching



General Ability

30 Questions • Answer Key

Q1 General Ability

Who has written the book 'Beyond the Syllabus: The Real-Life Guide for Teenagers Who Want More than Just Marks', published in July 2025?

- A. Amish Tripathi
- B. Santanu Bhattacharya
- C. Prajakta Koli
- D. Ankur Warikoo



Q2 General Ability

If 40% of a number is added to 120, then the result is the same number. 30% of the same number is:

- A. 90
- B. 80
- C. 60
- D. 180



Q3 General Ability

In a laboratory demonstration, a student adds hydrochloric acid to sodium hydrogencarbonate and collects the gas. How can the student confirm it is carbon dioxide?

- A. It supports combustion.
- B. It turns limewater milky.
- C. It forms a blue precipitate.
- D. It extinguishes a burning splint.



Q4 General Ability

What is the size of the image produced by a concave lens compared to the object?

- A. Larger than the object
- B. Equal to the focal length
- C. Smaller than the object
- D. Same size as the object



Q5 General Ability

Which method of contraception releases hormones to stop ovulation?

- A. Oral contraceptive pills
- B. Copper-T
- C. Condom
- D. Withdrawal method



Q6 General Ability

The Rural Infrastructure Development Fund is maintained by _____.

- A. Reserve Bank of India
- B. India Infrastructure Trust
- C. Securities and Exchange Board of India
- D. National Bank for Agriculture and Rural Development



Q7 General Ability

Which of the following shows oxidation?

- A. Gain of electrons
- B. Addition of Hydrogen
- C. Addition of oxygen
- D. Loss of oxygen



Q8 General Ability

Who appoints the members of the Union Public Service Commission in India?

- A. Parliament of India
- B. President of India
- C. Supreme Court of India
- D. Prime Minister of India



Q9 General Ability

If the value of the universal gravitation constant (G) was accidentally used as ten times higher in a planetary orbit calculation, what would be the effect on the calculated gravitational force between the planet and the sun?

- A. The calculated force would be ten times smaller than the actual value
- B. The calculated force would be half the actual value
- C. The calculated force would be unchanged
- D. The calculated force would be ten times greater than the actual value ✓

Q10 General Ability

A student observes a body moving with constant speed along a circular path. Which of the following best represents the graphical relationship between its speed and time for one complete revolution?

- A. A curved line increasing with time
- B. A line sloping upwards with time
- C. A sinusoidal curve above the time axis
- D. A horizontal straight line parallel to the time axis ✓

Q11 General Ability

When a blood vessel is injured, _____ help(s) to plug the leak by clotting the blood.

- A. platelets ✓
- B. lymphocytes
- C. red blood cells
- D. plasma

Q12 General Ability

A truck was facing the south. It turned 135° in the clockwise direction and then 45° in the anti-clockwise direction then moved 5 km. Then moved 45° in the anti-clockwise. In which direction is the truck facing now?

- A. North
- B. South
- C. South-west ✓
- D. South-east

Q13 General Ability

Which amendment act increased the Lok Sabha seats from 525 to 545?

- A. Twenty-Seventh Amendment
- B. Thirty-First Amendment ✓
- C. Thirty-Ninth Amendment
- D. Thirty-Fifth Amendment

Q14 General Ability

In December 2025, the plummeting AQI led to emergency-level restrictions, called GRAP-4, being implemented in which city of India?

- A. Delhi ✓
- B. Pune
- C. Chennai
- D. Chandigarh

Q15 General Ability

Majuli, which is recognised as the **largest inhabited riverine island in the world**, is located in the course of which river in India?

- A. Indus
- B. Brahmaputra ✓
- C. Teesta
- D. Ganga

Q16 General Ability

In which Indian city was the first tempered glass facility inaugurated in September 2025?

- A. Bengaluru
- B. Pune
- C. Noida ✓
- D. Hyderabad

Q17 General Ability

Two machines complete the same amount of work, but Machine A does it in half the time compared to Machine B. Which machine has a greater power output?

- A. Machine A ✓
- B. Machine B
- C. Both are equal
- D. Cannot be determined



Q18 General Ability

Find the difference between the medians of the data 21, 41, 34, 19, 37 and the data 33, 23, 27, 39, 31.

- A. 5
- B. 10
- C. 3
- D. 8

**Q19 General Ability**

Which of the following is considered the earliest known Marathi literary work?

- A. Dipavamsa
- B. Gathasaptasati
- C. Lilacharitra
- D. Jnanesvari

**Q20 General Ability**

Select the pair that follows the same pattern as that followed by the two set of pairs given below. Both pairs follow the same pattern.

OKN-JFI
GCF-BXA

- A. KGJ-FBE
- B. KFH-EAD
- C. KGJ-EBD
- D. KFH-FBE

**Q21 General Ability**

If 'A' stands for '+', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-', what will come in place of the question mark '?' in the following equation?
6 B 2 D 14 A 7 C 2 = ?

- A. 14
- B. 10
- C. 8
- D. 12

**Q22 General Ability**

Seven people H, I, J, K, O, P and Q are sitting around a circular table facing the center of the table. I sits third to the left of K. J sits second to the left of P. K is an immediate neighbour of both H and J. Q is not an immediate neighbor of I. How many people sit between O and J when counted from the right of O?

- A. One
- B. Two
- C. Four
- D. Three

**Q23 General Ability**

Which combination of factors is most responsible for widespread rainfall over mainland India during the summer season?

- A. Seasonal reversal of winds in the form of retreating north-east monsoon over the Indian subcontinent
- B. Differential heating between the Indian landmass and surrounding seas creating low pressure over north-western India
- C. Temperate cyclonic systems known as western disturbances originating from the Mediterranean region
- D. Localized convective rainfall generated only due to intense heating over the Deccan Plateau

**Q24 General Ability**

What determines the amount of water reabsorbed during the formation of urine in human kidneys?

- A. The oxygen level present within the circulating blood throughout the body
- B. The overall physical size and measurable dimensions of the human kidneys
- C. The specific type of food regularly eaten and normally consumed daily
- D. The amount of excess water and dissolved waste the human body must remove

**Q25 General Ability**

Each of the letters in the word JALOPIES are arranged in alphabetical order. How many letters are there in the English alphabetical order between the letter which is fourth from the left and the one which is second from the right in the new letter-cluster thus formed?

- A. 5
- B. 4
- C. 3
- D. 6



Q26 General Ability

What is the typical size range of particles in a colloidal solution?

- A. More than 1000 nanometers
- B. Larger than 1 millimeter
- C. Less than 1 nanometer
- D. 1 to 100 nanometers ✓

Q27 General Ability

Sidhu Murmu and Kanhu Murmu were the leaders of which of the following rebellions?

- A. Santhal Rebellion ✓
- B. Jaintia and Garo Rebellion
- C. Munda Rebellion
- D. Halba Rebellion

Q28 General Ability

Simplify: $\frac{1.2 \times 1.2 \times 1.2 - 0.12 \times 0.12 \times 0.12}{12 \times 12 \times 12}$

- A. 0.0999
- B. 0.0000999
- C. 0.000999 ✓
- D. 0.00999

Q29 General Ability

A train travels $\frac{1}{3}$ of the total distance at 40 km/hr, $\frac{1}{4}$ of the total distance at 60 km/hr and the remaining distance at 50 km/hr.

Find the average speed of the train.

- A. 42 km/hr
- B. 48 km/hr ✓
- C. 45 km/hr
- D. 50 km/hr

Q30 General Ability

The volume of a solid cylinder is $80,850 \text{ cm}^3$ and its height is 21 cm. What is the total surface area of the solid cylinder?

$\left(\text{Use } \pi = \frac{22}{7} \right)$

- A. 12,289 cm²
- B. 12,331 cm²
- C. 12,320 cm² ✓
- D. 12,312 cm²



Q31 Professional Ability

A nurse is reviewing past reports to analyze trends in maternal health. Which step reflects proper maintenance of these community health records?

- A. Destroying old records after each analysis session
- B. Organizing records systematically for easy retrieval ✓
- C. Editing previous records to match current observations
- D. Combining unrelated reports into one file for convenience

Q32 Professional Ability

Which technique is most commonly used in psychosocial therapy to help clients change negative thought patterns?

- A. Psychoeducation
- B. Cognitive restructuring ✓
- C. Electroconvulsive therapy
- D. Social skills training

Q33 Professional Ability

Following a course of broad-spectrum antibiotics, a patient develops gastrointestinal discomfort. Which change in the normal flora is most likely responsible for this symptom?

- A. Migration of skin flora to the intestines
- B. Disruption of gut flora balance leads to symptoms ✓
- C. Colonization by oral bacteria in the gut
- D. Overgrowth of respiratory tract organisms

Q34 Professional Ability

Formal social control is most closely associated with which of the following?

- A. Laws and official regulations ✓
- B. Family traditions and customs
- C. Personal habits and routines
- D. Peer group opinions

Q35 Professional Ability

A school-aged child with type 1 diabetes feels dizzy and sweaty during recess. What is the best initial nursing action?

- A. Administer extra insulin
- B. Encourage exercise
- C. Provide a fast-acting carbohydrate snack ✓
- D. Restrict fluids

Q36 Professional Ability

Which nursing intervention is most appropriate when caring for a patient experiencing an anaphylactic reaction?

- A. Place the patient in a supine position only
- B. Maintain a patent airway and administer epinephrine ✓
- C. Administer oral antihistamines
- D. Apply a warm compress to the affected area

Q37 Professional Ability

A patient presents with excessive thirst, frequent urination, and fatigue. Laboratory results reveal low levels of antidiuretic hormone. Which endocrine gland is most likely malfunctioning in this scenario?

- A. Adrenal cortex
- B. Anterior pituitary gland
- C. Pineal gland
- D. Posterior pituitary gland ✓

Q38 Professional Ability

Which hormone decreases most rapidly after surgical menopause?

- A. Thyroxine
- B. Insulin
- C. Estrogen ✓
- D. Progesterone



Q39 Professional Ability

During a health camp, a nurse ensures that all patient records are updated immediately after each consultation. Which essential requirement is she adhering to in this process?

- A. Confidentiality of patient information
- B. Proper storage and retrieval systems
- C. Timeliness of data entry and review ✓
- D. Legibility in handwriting and ink

Q40 Professional Ability

While conducting a home visit, the nurse needs to dispose of contaminated materials. Which step aligns with proper bag technique?

- A. Putting contaminated items back in the bag's main compartment
- B. Placing waste in a separate, leak-proof container brought in the bag ✓
- C. Disposing of waste in the client's kitchen trash bin
- D. Wrapping waste in paper and leaving it near the bag

Q41 Professional Ability

Effective maternal–infant bonding in the immediate postnatal period primarily helps the mother to achieve which of the following?

- A. Eliminating the risk of physiological jaundice in neonate
- B. Increasing infants' weight rapidly
- C. Avoiding mandatory immunizations
- D. Recognizing and responding to baby's needs ✓

Q42 Professional Ability

Which of the following best describes the sociological significance of marriage in most societies?

- A. It is primarily a private contract between two people.
- B. It only provides legal status to partners.
- C. It exists solely for procreation.
- D. It acts as a social institution that organizes kinship and inheritance. ✓

Q43 Professional Ability

A nurse is tasked with creating a peer support network for individuals with chronic mental illness in the community. Which action best demonstrates application of the principles of community mental health nursing and promotes empowerment?

- A. Assigning all decisions to healthcare professionals
- B. Encouraging clients to lead meetings and share experiences ✓
- C. Scheduling infrequent group sessions
- D. Focusing only on medication adherence

Q44 Professional Ability

When planning a family health education session, what approach best allows a community health nurse to tailor interventions for families with diverse cultural backgrounds and health beliefs?

- A. Using only standard educational materials for all families
- B. Conducting a preliminary assessment of each family's health beliefs and cultural practices ✓
- C. Focusing the session only on the nurse's own cultural perspective
- D. Avoiding discussion of cultural differences during the session

Q45 Professional Ability

A patient with urinary retention is prescribed intermittent catheterization every six hours. Which action by the nurse demonstrates proper technique to minimize infection risk?

- A. Perform hand hygiene before and after catheter insertion ✓
- B. Administer prophylactic antibiotics after every catheterization
- C. Insert antibiotic injections directly into the urethra
- D. Change the catheter insertion site for each insertion

Q46 Professional Ability

When caring for a patient experiencing a panic attack, which nursing intervention is most appropriate?

- A. Leave the patient alone to calm down
- B. Encourage the patient to recall past traumas
- C. Remain calm and stay with the patient ✓
- D. Administer stimulant medication



Q47 Professional Ability

A 30-year-old pregnant woman with hyperemesis gravidarum is at risk for Wernicke's encephalopathy. Which vitamin supplement is essential in her treatment plan?

- A. Suggest vitamin C supplements daily
- B. Start vitamin D injections only
- C. Administer intravenous thiamine therapy ✓
- D. Prescribe oral folic acid tablets

Q48 Professional Ability

What is a key principle for making health education effective among diverse groups?

- A. Adapt messages to audience needs ✓
- B. Deliver information in one language only
- C. Focus solely on scientific data
- D. Assume all learners have the same background

Q49 Professional Ability

When evaluating the effectiveness of communication in a health education session, which indicator most accurately shows that successful communication has been established?

- A. Participants can accurately summarize the main points ✓
- B. The educator finishes the session early
- C. The educator uses effective mass media
- D. The educator has thorough knowledge of the content

Q50 Professional Ability

A 29-year-old woman presents with primary infertility and regular cycles. Her hysterosalpingography reveals bilateral tubal blockage. Which investigation should be prioritized next for management?

- A. Serum thyroid function tests for evaluation
- B. Endometrial biopsy for luteal phase assessment
- C. Transvaginal ultrasound of pelvic organs
- D. Diagnostic laparoscopy with chromopertubation ✓

Q51 Professional Ability

Which of the following best describes the nurse's role in addressing a patient's psychological needs during hospitalization?

- A. Ensuring the patient follows dietary restrictions
- B. Monitoring vital signs regularly
- C. Providing emotional support and active listening ✓
- D. Administering prescribed medications only

Q52 Professional Ability

A patient with limited mobility is being transferred from bed to wheelchair. Which nursing action best minimizes the risk of injury during transfer?

- A. Moving the patient quickly to minimize time spent
- B. Locking the wheelchair brakes before moving the patient ✓
- C. Allowing the patient to transfer independently
- D. Raising the bed to its highest position for transfer

Q53 Professional Ability

A nurse is providing genetic counseling to a couple with a family history of diabetes. Which type of counseling is most appropriate in this scenario?

- A. Motivational counseling emphasizing unrelated lifestyle changes
- B. Supportive counseling centered on emotional adjustment only
- C. Non-directive counseling without providing any guidance
- D. Directive counseling focused on risk assessment and preventive advice ✓

Q54 Professional Ability

Which of the following pairs correctly matches a method with its principle for controlling microbes?

- A. Incineration - uses moist heat
- B. Pasteurization - uses high pressure
- C. Filtration - removes microbes without killing them ✓
- D. Autoclaving - uses dry heat

Q55 Professional Ability

What is a major difference in the social structure of rural and urban communities?

- A. Rural communities have larger populations
- B. Urban communities have more formal institutions ✓
- C. Rural communities have greater cultural diversity
- D. Urban communities rely mainly on agriculture



Q56 Professional Ability

When urgent supplies are required outside the regular ordering cycle, which action aligns with proper ward management protocols?

- A. Borrow supplies from another unit without formal process
- B. Wait for the next scheduled indent submission period
- C. Purchase the items personally and seek reimbursement later
- D. Submit a special indent with justification for urgent need ✓

Q57 Professional Ability

What is the primary function of alveoli in the lungs?

- A. Filtering blood
- B. Exchanging gases ✓
- C. Moving the rib cage
- D. Producing mucus

Q58 Professional Ability

Which of these represents the correct order of Maslow's hierarchy from the most basic to higher needs?

- A. Belonging needs, Esteem needs, Safety needs, Physical needs
- B. Safety needs, Belonging needs, Esteem needs, Physical needs
- C. Esteem needs, Physical needs, Safety needs, Belonging needs
- D. Physical needs, Safety needs, Belonging needs, Esteem needs ✓

Q59 Professional Ability

Which of the following best describes intelligence?

- A. The tendency to act impulsively
- B. The ability to learn and adapt to new situations ✓
- C. The skill to speak multiple languages
- D. The capacity to remember only past events

Q60 Professional Ability

Which scenario best illustrates the concept of industry versus inferiority according to Erikson's stages of development in school age children?

- A. A child plays alone during recess
- B. A child feels proud after completing a group project ✓
- C. A child throws a tantrum when told "no"
- D. A child insists on dressing themselves

Q61 Professional Ability

In the context of nursing fundamentals, how does understanding the difference between health and disease assist nurses in planning patient care?

- A. It helps nurses to identify symptoms only.
- B. It assists nurses to promote holistic care and prevention. ✓
- C. It limits nurses to physical health assessments.
- D. It enables nurses to focus solely on disease treatment.

Q62 Professional Ability

In the male reproductive system, which structure among the following is primarily responsible for the production of sperm?

- A. Seminiferous tubules ✓
- B. Epididymis
- C. Prostate gland
- D. Vas deferens

Q63 Professional Ability

A patient has just returned to the ward after abdominal surgery. Which action should the nurse take first to evaluate the effectiveness of respiratory interventions in the immediate postoperative period?

- A. Measure the patient's urine output
- B. Review the patient's medication chart
- C. Assess the patient's oxygen saturation and respiratory rate ✓
- D. Check the surgical dressing for bleeding

Q64 Professional Ability

A newborn with respiratory distress syndrome and requiring mechanical ventilation is admitted to a facility. Which level of NICU care should this facility provide to best meet the infant's needs?

- A. Level II
- B. Level III ✓
- C. Level I
- D. Level IV



Q65 Professional Ability

Which hormone is typically measured during infertility investigations to assess ovarian reserve?

- A. Testosterone
- B. Prolactin
- C. Follicle Stimulating Hormone (FSH) ✓
- D. Thyroid Stimulating Hormone (TSH)

Q66 Professional Ability

During active labor, a woman experiences sudden respiratory distress, hypotension, and cyanosis. What is the most likely diagnosis?

- A. Diagnose uterine inversion
- B. Consider cord prolapse
- C. Suspect amniotic fluid embolism ✓
- D. Identify placental abruption

Q67 Professional Ability

Which of the following best describes the relationship between health and disease in the context of community health nursing?

- A. Disease is static while health is dynamic
- B. Health and disease are two unrelated concepts
- C. Health and disease are on a continuum and influence each other ✓
- D. Disease is a social dysfunction and health affects biologically

Q68 Professional Ability

Which is an important sign of a healthy newborn?

- A. Pale skin
- B. Low temperature
- C. No movement
- D. Strong cry ✓

Q69 Professional Ability

How do the spleen and thymus work together to support the immune system?

- A. The spleen filters pathogens from blood and the thymus matures T-lymphocytes ✓
- B. The spleen destroys bacteria and the thymus produces insulin
- C. The spleen produces antibodies and the thymus stores iron
- D. The spleen digests fats and the thymus filters lymph

Q70 Professional Ability

A woman in labor presents with uncoordinated, painful uterine contractions and no cervical progress. Which abnormal uterine action is most likely responsible?

- A. Incoordinate uterine action ✓
- B. Normal uterine action
- C. Hypotonic uterine action
- D. Hypertonic uterine action

Q71 Professional Ability

Which committee emphasized strengthening district hospitals to provide specialist services as part of health planning in India?

- A. Bhore Committee
- B. Mudaliar Committee ✓
- C. Srivastava Committee
- D. Jungalwalla Committee

Q72 Professional Ability

Which of the following terms in research methodology refers to the consistency and reproducibility of a measurement tool?

- A. Validity
- B. Manipulation
- C. Reliability ✓
- D. Control

Q73 Professional Ability

A district health officer is tasked with improving maternal health services. She must choose a five-year plan that first introduced the Minimum Needs Programme. Which five-year plan should she reference for her proposal?

- A. Seventh Five-Year Plan (1985-90)
- B. Fifth Five-Year Plan (1974-79) ✓
- C. Sixth Five-Year Plan (1980-85)
- D. Fourth Five-Year Plan (1969-74)

Q74 Professional Ability

The family in which husband lives in wife's home is:

- A. Matrilineal family
- B. Matrilocal family ✓
- C. Matriarchal family
- D. Monogamous family



Q75 Professional Ability

Which of the following is an example of a visual aid used in health education?

- A. Microphone
- B. Radio
- C. Poster
- D. Song

**Q76 Professional Ability**

When instructing parents on cup feeding for a preterm infant, which advice ensures effective feeding and reduces the risk of choking?

- A. Pour milk directly into the mouth
- B. Use a large cup for faster feeding
- C. Tilt the infant's head backward
- D. Allow the infant to sip at their own pace

**Q77 Professional Ability**

Which solution is commonly used for fluid replacement in burn patients?

- A. Ringer's lactate
- B. 5% dextrose
- C. Normal saline with glucose
- D. Distilled water

**Q78 Professional Ability**

During clinical teaching, which method is most effective for fostering critical thinking by discussing real-life scenarios among students?

- A. Demonstration method
- B. Role play method
- C. Case study method
- D. Field visit

**Q79 Professional Ability**

What is a primary role of a nurse in health education?

- A. Providing information about healthy lifestyles
- B. Administering medication
- C. Diagnosing diseases
- D. Performing surgery

**Q80 Professional Ability**

When a nurse combines information about a patient's verbal communication and nonverbal cues during psychological assessment, what is the nurse primarily aiming to understand?

- A. The patient's social status
- B. The patient's family history
- C. The patient's physical health
- D. The patient's mental and emotional state

**Q81 Professional Ability**

A nurse is monitoring a patient with a colostomy. Which observation requires immediate attention?

- A. Output decreases temporarily after surgery
- B. Stoma appears dark and bluish
- C. Stoma is moist and pink
- D. Effluent is formed and brown

**Q82 Professional Ability**

A nurse believes that people with mental illness are dangerous. How might this misconception affect her professional behavior?

- A. It increases the nurse's level of empathy and compassion for all hospitalized patients.
- B. It ensures the nurse provides more attention to these mentally ill patients.
- C. It leads to more effective and therapeutic communication with various mentally ill patients.
- D. It may cause her to avoid or treat patients with prejudice, reducing quality of care.

**Q83 Professional Ability**

What is a key provision of the Narcotic Drugs and Psychotropic Substances Act, 1985, regarding medical use?

- A. Medical use is allowed only under strict regulation
- B. Medical use is unrestricted for all substances
- C. Medical use is allowed without any oversight
- D. Medical use is completely banned



Q84 Professional Ability

A community health nurse must evaluate the risk of infection transmission in a crowded refugee camp. Which combined factors should be prioritized to prevent outbreaks?

A. Medication availability and transportation

B. Environmental sanitation and personal hygiene ✓

C. Language barriers and dietary habits

D. Nutrition and immunity

Q85 Professional Ability

In a situation where an indwelling urinary catheter is inserted, which nursing action best applies the concept of surgical asepsis to minimize infection risk?

A. Maintaining a closed sterile system throughout the procedure ✓

B. Lubricating the catheter tip with sodium hypochlorite

C. Wearing clean gloves during the entire procedure

D. Reusing the same sterile gloves for multiple patients

Q86 Professional Ability

Which hormone is most associated with the body's stress response?

A. Insulin

B. Melatonin

C. Cortisol ✓

D. Serotonin

Q87 Professional Ability

Which hormone fluctuation is primarily linked to premenstrual syndrome symptoms?

A. Oxytocin hormone

B. Estrogen and progesterone ✓

C. Follicle stimulating hormone

D. Insulin and glucagon

Q88 Professional Ability

A clinician is choosing between Depo Provera and combined oral contraceptives for a patient with migraine with aura. Why might Depo Provera's content be preferred?

A. It contains androgen, increasing stroke risk

B. It contains estrogen, increasing clotting risk

C. It lacks estrogen, reducing stroke risk ✓

D. It contains high estrogen, reducing migraines

Q89 Professional Ability

Which age group is mainly considered in pediatric nursing?

A. Seniors

B. Adults

C. Newborns to adolescents ✓

D. Pregnant women

Q90 Professional Ability

During infertility assessment, a female is diagnosed with Asherman's syndrome. What is the primary mechanism by which this condition causes infertility?

A. Intrauterine adhesions preventing implantation ✓

B. Hormonal imbalance leading to anovulation

C. Blocked fallopian tubes

D. Abnormal cervical mucus

Q91 Professional Ability

A nurse researcher is planning to study the effects of a new intervention. She wants her results to be applicable to a wide population. Which characteristic should guide her research design?

A. Limiting the research to a single hospital

B. Choosing an easily accessible sample

C. Focusing only on a unique patient group

D. Ensuring generalizability of the study findings ✓

Q92 Professional Ability

In a health care setting, a nurse finds used gloves and a broken glass ampoule together. Which action ensures proper biomedical waste management?

A. Mix both in red bag

B. Segregate gloves and glass ampoules ✓

C. Place both in black bag

D. Dispose both in yellow bag

Q93 Professional Ability

A patient is receiving oxygen via nasal cannula and complains of nasal dryness. What should the nurse do to maintain comfort and oxygenation?

A. Apply petroleum jelly inside the nose

B. Discontinue oxygen therapy

C. Humidify the oxygen ✓

D. Increase oxygen flow rate



Q94 Professional Ability

What is the specific lymphatic pathway that leads to the development of a Virchow's node (Troisier's sign)?

- A. Axillary lymph nodes
- B. Thoracic duct** ✓
- C. Right lymphatic duct
- D. Deep cervical chain

Q95 Professional Ability

What is the best approach for the nurse administrator to solve the frequent conflicts between nurses and physicians regarding patient care responsibilities?

- A. Increase the nurse-to-patient ratio
- B. Facilitate an inter-professional meeting to clarify roles** ✓
- C. Ignore the issue and hope it resolves naturally
- D. Assign all decision-making to physicians

Q96 Professional Ability

A nurse manager is tasked with improving the safety culture on a medical-surgical unit. Which of the following strategies is most effective for promoting a sustained culture of safety within the hospital environment?

- A. Implementing a non-punitive incident reporting system** ✓
- B. Quarterly safety audits to be made mandatory
- C. Increasing the number of safety instructions posters
- D. Mandatory disciplinary action for errors and mistakes

Q97 Professional Ability

A school nurse is designing a program to address obesity in adolescents. Which combination of interventions would best support healthy weight management?

- A. Advise competitive sports with a high fat diet
- B. Providing nutrition education and encouraging regular sleep patterns
- C. Skipping meals and encouraging rapid weight loss
- D. Promoting physical activity and a balanced diet** ✓

Q98 Professional Ability

What is the primary goal of coordination in nursing administration?

- A. To assign duties randomly
- B. To increase paperwork
- C. To ensure all team members work harmoniously** ✓
- D. To reduce patient interaction

Q99 Professional Ability

During assessment, a midwife observes a blood-tinged mucus discharge, known as the 'show,' in a pregnant woman. What is the significance of this finding?

- A. It reflects dehydration from prolonged labor
- B. It suggests placental abruption is occurring
- C. It shows infection is present in the uterus
- D. It indicates softening and opening of the cervix** ✓

Q100 Professional Ability

Which family planning method is considered most appropriate to discuss with a woman during the normal puerperium if she desires long-term, reversible contraception?

- A. Injectable contraceptives
- B. Intrauterine contraceptive device (IUCD)** ✓
- C. Tubal ligation
- D. Oral contraceptive pills



General Ability

30 Questions · Answer Key

Q1 General Ability

Each vowel in the word MANAGER is changed to the letter immediately following it in the English alphabetical order, and each consonant is changed to the letter immediately preceding it in the English alphabetical order. Which of the following letters will appear exactly twice in the group of letters thus formed?

A. F



B. K

C. N

D. M

Q2 General Ability

In this question, a question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Among five trees, N, O, R, S and T each having a different height, which tree is the tallest?

(I) O is shorter than only one tree. O is taller than N but shorter than R.

(II) N is taller than T.

A. Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question

B. Data in Statement I alone is sufficient to answer the question while data in statement II is not



C. Both statements I and II together are NOT sufficient to answer the question

D. Data in Statement II alone is sufficient to answer the question while data in statement I is not

Q3 General Ability

In a division sum, the divisor is 17 times the quotient and 11 times the remainder. If the remainder is 34, what is the dividend?

A. 8262



B. 8266

C. 8260

D. 8265

Q4 General Ability

In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

3 - 31

5 - 51

A. 4 - 31

B. 9 - 81

C. 2 - 11

D. 10 - 101



Q5 General Ability

_____ secured the Ranji Trophy title in 2024-25 after drawing the final against Kerala and winning on the basis of a first-innings lead.

A. Gujarat

B. Vidarbha



C. Mumbai

D. Saurashtra

Q6 General Ability

Given that $M : N = 5 : 4$ & $N : P = 4 : 7$. If the difference between P and M is 11, find N.

A. 22



B. 44

C. 66

D. 11



Q7 General Ability

In a scenario where light passes through three different media (air, water, and glass) in sequence, which law helps in predicting the final direction of the light ray?

- A. Law of gravity
- B. Law of superposition
- C. Snell's Law ☒
- D. Law of conservation of energy

Q8 General Ability

What does the size of an atom mainly depend on?

- A. Number of protons ☒
- B. Number of neutrons
- C. Distance of electrons from the nucleus
- D. Number of isotopes

Q9 General Ability

If the volume of a cube is $27,000 \text{ m}^3$, then find the total surface area of the cube in m^2 .

- A. 5438
- B. 5400 ☒
- C. 5351
- D. 5403

Q10 General Ability

Which of the following government initiatives is specifically aimed at the conservation and protection of wildlife in India through habitat preservation and species-focused management?

- A. Pradhan Mantri Gram Sadak Yojana
- B. Operation Flood
- C. Swachh Bharat Mission
- D. Project Tiger ☒

Q11 General Ability

P sells a Laptop to Q at a loss of 40% and Q sells the laptop to R at a profit of 25%. If R purchased the laptop for ₹8946, then what was the cost price (in ₹) of the laptop for P?

- A. 11928 ☒
- B. 11981
- C. 12138
- D. 12122

Q12 General Ability

A company wants to reduce long-term environmental pollution from its packaging materials. Which material should it choose to avoid persistent environmental harm?

- A. A material that is inert and does not interact with organisms
- B. A material that can be decomposed by natural processes ☒
- C. A material that remains unchanged for decades
- D. A material that is harmful to the ecosystem

Q13 General Ability

Which of the following cities became the capital of British India in the late 18th century?

- A. Delhi
- B. Madras
- C. Kolkata ☒
- D. Bombay

Q14 General Ability

Seven boxes H, I, J, P, Q, R and S are kept one over the other but not necessarily in the same order.

H is kept second from the bottom. Only three boxes are kept between H and S. J is kept at one of the positions below H. Only Q is kept between S and R. P is kept at one of the positions above S.

How many boxes are kept between J and P?

- A. Five ☒
- B. Four
- C. Three
- D. One

Q15 General Ability

The testes are located in the _____ because sperm formation requires a lower temperature than the normal body temperature.

- A. abdomen
- B. prostate
- C. scrotum ☒
- D. bladder



Q16 General Ability

The University of London awarded honorary degree of Doctor of Science (Economics) to which Indian on its foundation day in November 2025?

- A. Nandan Nilekani
- B. Gautam Adani
- C. Azim Premji
- D. Kumar Mangalam Birla

**Q17 General Ability**

Which Fundamental Right explicitly prohibits human trafficking, forced labour, and the employment of children in hazardous occupations?

- A. Right to Freedom
- B. Right against Exploitation
- C. Right to Equality
- D. Right to Education

**Q18 General Ability**

In the presence of sunlight, chlorine is added to hydrocarbons in a very fast reaction. Chlorine can replace the hydrogen atoms one by one. It is called a/an _____ reaction.

- A. replacement
- B. elimination
- C. addition
- D. substitution

**Q19 General Ability**

If a real and inverted image is formed by a convex lens on a screen 20 cm away from the lens, and the object is placed 30 cm from the lens, what is the focal length of the lens according to the lens formula?

- A. The focal length is 15 cm
- B. The focal length is 10 cm
- C. The focal length is 20 cm
- D. The focal length is 12 cm

**Q20 General Ability**

Which institute secured the top position in the NIRF Rankings 2025 for the seventh consecutive year?

- A. Indian Institute of Technology Bombay
- B. Indian Institute of Science Bengaluru
- C. Indian Institute of Technology Delhi
- D. Indian Institute of Technology Madras

**Q21 General Ability**

Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- A. UOKH
- B. KFAX
- C. VPLI
- D. QKGD

**Q22 General Ability**

During anaerobic respiration in yeast, pyruvate is converted into which of the following substances?

- A. Lactic acid and water
- B. Carbon dioxide and water
- C. Glucose and oxygen
- D. Ethanol and carbon dioxide

**Q23 General Ability**

In November 2025, which of the following conferences highlighted India's telecom innovation and 6G vision?

- A. Global Cyber Security Summit 2025
- B. Emerging Science, Technology and Innovation Conclave (ESTIC) 2025
- C. World Telecommunication Development Conference (WTDC-25)
- D. International Bharat 6G Vision & Future Networks Summit 2025

**Q24 General Ability**

According to the Indian Mineral Industry at a Glance, Annual Report 2022–23, which Indian state recorded the highest total value of mineral production during the financial year 2022–2023 (excluding atomic and fuel minerals)?

- A. Odisha
- B. Karnataka
- C. Chhattisgarh
- D. Rajasthan



Q25 General Ability

Which combination will result in a salt and water only?

- A. Nitric acid and carbon dioxide
- B. Hydrochloric acid and calcium carbonate
- C. Sulfuric acid and potassium hydroxide ✓
- D. Sodium hydroxide and oxygen

Q26 General Ability

A and B can complete a work together in 9 days. If A alone can do it in 12 days, then, B alone can do one-third of the same work in _____ days.

- A. 12 ✓
- B. 48
- C. 36
- D. 24

Q27 General Ability

A box is pushed with a force of 20 N across a horizontal floor for a distance of 5 m in the direction of the force. What is the work done by the force?

- A. 25 J
- B. 400 J
- C. 50 J
- D. 100 J ✓

Q28 General Ability

A ball of mass 0.5 kg is accelerated at 4 m/s^2 . If a second ball of mass 1 kg is to achieve the same acceleration, what force must be applied to it?

- A. 0.5 N
- B. 2 N
- C. 2.5 N
- D. 4 N ✓

Q29 General Ability

By what percentage has the National Highway (NH) network expanded from 2014 to 2023?

- A. 70%
- B. 50%
- C. 40%
- D. 60% ✓

Q30 General Ability

Who among the following appoints Municipal Commissioners?

- A. Vice-President of India
- B. State Government ✓
- C. President of India
- D. Chief Justice of High Court

Professional Ability

70 Questions • Answer Key

Q31 Professional Ability

In the context of utilizing research in nursing practice, what is the primary role of clinical guidelines derived from systematic reviews?

- A. They substitute for ongoing professional education
- B. They replace the need for clinical judgment
- C. They serve as legal requirements for all nursing interventions
- D. They provide evidence-based recommendations ✓

Q32 Professional Ability

What is an example of poor listening?

- A. Asking clarifying questions
- B. Interrupting the speaker ✓
- C. Nodding to show understanding
- D. Maintaining eye contact

Q33 Professional Ability

Which two factors can influence an individual's nutritional status according to the context of physiological and psychological aspects?

- A. Physical activity and geography
- B. Digestion efficiency and emotional state ✓
- C. Food cost and climate
- D. Appetite changes and cultural beliefs



Q34 Professional Ability

When managing a patient with increased intracranial pressure, which combination of actions should the nurse prioritize to promote patient safety and reduce complications?

- A. Place ice packs on the patient's head and limit movement
- B. Elevate the head of the bed and monitor vital signs ✓
- C. Encourage coughing and deep breathing exercises
- D. Keep the patient flat and administer fluids

Q35 Professional Ability

A nurse is evaluating elimination needs of a patient with a newly established colostomy. Which action demonstrates best practice for promoting self-care?

- A. Encouraging the patient to observe and participate in ostomy care ✓
- B. Performing all ostomy care for the patient
- C. Avoiding discussion of ostomy management
- D. Limiting patient involvement to prevent anxiety

Q36 Professional Ability

In the context of community health nursing, how can nurses most effectively contribute to disease prevention within a health care delivery system?

- A. By delegating all preventive tasks to doctors
- B. By promoting vaccination and educating about hygiene ✓
- C. By focusing solely on treatment
- D. By only distributing medicines

Q37 Professional Ability

During the menstrual cycle, what typically occurs when estrogen and progesterone levels drop at the end of the cycle?

- A. The follicle matures
- B. Ovulation begins
- C. Menstruation starts ✓
- D. The uterine lining thickens

Q38 Professional Ability

A 5-year-old child is prescribed nebulization for acute bronchospasm. Which nursing action best ensures the medication is effectively delivered during the procedure?

- A. Placing the child in a fully supine position during nebulization
- B. Ensuring the child breathes slowly and deeply during nebulization ✓
- C. Allowing the child to eat immediately during the nebulization process
- D. Asking the child to hold breath for a few seconds after each inhalation

Q39 Professional Ability

What is the most appropriate action for a nurse if a discrepancy is found in the medication record during shift change?

- A. Ignore the discrepancy
- B. Erase the record
- C. Immediately report to supervisor ✓
- D. Wait for next shift to address

Q40 Professional Ability

A nurse is educating a community about food adulteration. Which combination of actions best helps prevent the consumption of adulterated food?

- A. Cooking food at high temperatures and storing leftovers in the refrigerator
- B. Purchasing branded products and checking for standard certification marks ✓
- C. Washing fruits and vegetables thoroughly and storing them in plastic containers
- D. Reading food labels and buying from local markets

Q41 Professional Ability

Who is primarily responsible for delivering ICDS services at the village level?

- A. Block Development Officer
- B. School Teacher
- C. ASHA Worker
- D. Anganwadi Worker ✓



Q42 Professional Ability

A state government seeks to address disparities in health care access. According to the National Health Policy, which initiative should they implement first?

- A. Developing new pharmaceutical industries
- B. Establishing medical colleges in cities
- C. Promoting private insurance coverage
- D. Expanding primary health care outreach** ✓

Q43 Professional Ability

A nurse at an under five clinic observes a child with below-average growth and missed immunizations. What should be the nurse's most appropriate intervention?

- A. Refer the child to a primary health care provider for follow-up
- B. Educate parents on nutrition and immunizations** ✓
- C. Advise immediate admission to hospital
- D. Refer the child to a tertiary health care centre

Q44 Professional Ability

If a person touches a hot surface and quickly pulls their hand away, which type of nerves are primarily responsible for sending the signal to move the hand?

- A. Motor nerves** ✓
- B. Sensory nerves
- C. Interneurons
- D. Autonomic nerves

Q45 Professional Ability

Bachmann's bundle is often considered an extension of which of the following, and what is its primary function?

- A. Posterior internodal tract; initiating SA node impulses
- B. Atrioventricular (AV) bundle; ventricular depolarization
- C. Anterior internodal tract; activating the left atrium** ✓
- D. Middle internodal tract; slowing impulse conduction to the AV node

Q46 Professional Ability

When planning a community health education session, why might a nurse choose posters instead of pamphlets?

- A. Pamphlets are always more expensive
- B. Posters are more effective for large groups with limited literacy** ✓
- C. Posters can be reused every time
- D. Posters require detailed explanations

Q47 Professional Ability

Mutual interaction of individuals and we feeling are the elements of:

- A. Personality
- B. Individual
- C. Leader
- D. Society** ✓

Q48 Professional Ability

A nurse is tasked with teaching newly diagnosed hypertensive patients about medication adherence. What approach reflects effective teaching responsibility?

- A. Reading the medication instructions aloud to patients
- B. Telling patients to follow instructions at home
- C. Handing out medication charts to every patient
- D. Evaluating patient ability to explain their medication plan** ✓

Q49 Professional Ability

A pregnant woman complains of heartburn during her third trimester. Which combination of management strategies is most appropriate for this minor disorder?

- A. Eating large meals and lying down immediately
- B. Skipping dinner and increasing caffeine intake
- C. Drinking carbonated beverages with meals
- D. Consuming small frequent meals and avoiding spicy foods** ✓

Q50 Professional Ability

Which fetal position is most commonly associated with prolonged labor due to malposition?

- A. Transverse lie
- B. Occipito-anterior position
- C. Occipito-posterior position** ✓
- D. Breech presentation

Q51 Professional Ability

Which of the following is NOT a correct practice in maintaining records?

- A. Writing clearly and legibly
- B. Recording data promptly
- C. Using correction fluid to erase mistakes** ✓
- D. Keeping records confidential



Q52 Professional Ability

During a complex surgical procedure, the surgical team realizes a critical piece of equipment is malfunctioning. What is the most appropriate action for the nurse in charge of operation theatre supplies?

- A. Attempt to fix the equipment during the procedure
- B. Immediately inform the surgeon and provide a sterile backup ✓
- C. Replace the equipment after the procedure is complete
- D. Ignore the issue and continue the procedure

Q53 Professional Ability

What is the primary function of the baroreceptors located in the carotid sinus and aortic arch?

- A. Facilitate gas exchange
- B. Monitor blood pressure changes ✓
- C. Regulate heart contractions
- D. Produce red blood cells

Q54 Professional Ability

A healthy newborn is found with mild jaundice 24 hours after birth. What is the best initial nursing action?

- A. Start phototherapy immediately
- B. Continue regular feeding and monitor the jaundice. ✓
- C. Administer intravenous fluids
- D. Stop breastfeeding and notify the physician

Q55 Professional Ability

In a healthcare setting, combining hand hygiene with the use of personal protective equipment (PPE) demonstrates which principle of asepsis?

- A. Maintaining a sterile field only
- B. Treating infections after they occur
- C. Preventing cross-contamination ✓
- D. Disposing of waste materials

Q56 Professional Ability

What does the acronym RACE stand for, in the context of hospital fire safety policies?

- A. Report, Act, Control, Elaborate
- B. Rescue, Act, Contain, Exit
- C. Rescue, Alarm, Confine, Extinguish ✓
- D. Run, Alarm, Call, Evacuate

Q57 Professional Ability

A patient is diagnosed with monozygotic monoamniotic twins. What is the most accurate explanation for this diagnosis?

- A. Twins that develop from two fertilized eggs, each with separate placentas
- B. Twins that develop from a single fertilized egg, each with a separate placenta
- C. Twins that develop from a single fertilized egg, share both placenta and amniotic sac ✓
- D. Twins that develop from two fertilized eggs, sharing a placenta

Q58 Professional Ability

A patient with a history of recurrent second-trimester miscarriages undergoes an MRI. The scan shows a heart-shaped uterine cavity with two distinct horns. What is the most likely diagnosis?

- A. unicornuate uterus
- B. biconuate uterus ✓
- C. didelphys uterus
- D. septate uterus

Q59 Professional Ability

Which factor describes the ability of a microbe to cause disease in a host?

- A. vector
- B. immunity
- C. virulence ✓
- D. antibiotic

Q60 Professional Ability

In the context of pelvic infections affecting the vagina, which management strategy is most appropriate when both infection and fistula are present?

- A. Immediate surgical repair before infection control
- B. Only observation
- C. Analgesics without antibiotics
- D. Antibiotic therapy followed by surgical repair ✓



Q61 Professional Ability

What is the expected color and composition of lochia serosa?

- A. Clear watery discharge with no cells
- B. Pinkish or brownish discharge containing serous fluid and leukocytes ✓
- C. Bright red discharge with blood clots
- D. White or yellow discharge with mucus and leukocytes

Q62 Professional Ability

A 34-year-old multiparous woman in labor develops sudden, severe postpartum hemorrhage unresponsive to uterine massage and oxytocin. Examination reveals a soft, boggy uterus. What is the next best step in management?

- A. Administer uterotonic agents ✓
- B. Manual removal of placenta
- C. Immediate surgical intervention
- D. Start blood transfusion

Q63 Professional Ability

The average daily dietary intake for a healthy individual for a given life stage and gender group is called:

- A. Recommended dietary allowance ✓
- B. Tolerable upper intake level
- C. Estimated average requirement
- D. Adequate dietary intake

Q64 Professional Ability

A hospital is conducting a disaster drill. The nurse leader must decide how to allocate limited medical supplies while ensuring patient care. What is the most appropriate nursing action in this scenario?

- A. Allocate supplies based on triage Principles ✓
- B. Reserve supplies for staff use only as per their will
- C. Distribute supplies fairly among all patients
- D. Withhold supplies until more arrive

Q65 Professional Ability

What is the main mechanism of action for immunotherapy in treating allergic diseases?

- A. Desensitizing the immune response to specific allergens ✓
- B. Stimulating histamine production
- C. Destroying allergens in the bloodstream
- D. Suppressing only the symptoms of allergy

Q66 Professional Ability

In a rural hospital, the nursing administrator must choose a financing strategy that aligns with the national health plan's emphasis on equitable access. Which approach most effectively meets this requirement?

- A. Allocate resources based on community health needs assessments ✓
- B. Distribute funds equally among all wards regardless of need
- C. Prioritize funding for urban-based specialty units
- D. Base allocations solely on historical spending data

Q67 Professional Ability

The nurse-patient relationship in holistic nursing is best described as:

- A. Task-oriented
- B. Patient-centered ✓
- C. Procedure-focused
- D. Nurse-centered

Q68 Professional Ability

A pregnant woman diagnosed with hydramnios presents with sudden severe abdominal pain and difficulty breathing. What is the most appropriate immediate nursing action?

- A. Apply abdominal binder
- B. Administer oral fluids including lots of fruit juices
- C. Encourage ambulation and exercise
- D. Provide rest position to left side and provide oxygen ✓

Q69 Professional Ability

A family relocates to a new community, and the receiving nurse needs to update their health record. Which practice best promotes continuity of care and accurate health tracking?

- A. Relying on verbal accounts from family members
- B. Starting a new record without reviewing past data
- C. Transferring and integrating previous health records promptly ✓
- D. Only recording new illnesses reported by the family



Q70 Professional Ability

A nurse must design a psychoeducation session for parents of children with autism spectrum disorder (ASD). Which approach is most likely to improve parental understanding and support for their child's social development?

- A. Discouraging parental involvement in therapy
- B. Encouraging consistent routines and positive reinforcement** ✓
- C. Promoting frequent changes in daily schedules
- D. Emphasizing punishment for inappropriate behaviors

Q71 Professional Ability

After a stroke, a patient has difficulty comprehending speech but retains the ability to speak fluently, though the words lack meaning. Which brain region is most likely damaged?

- A. Visual cortex in the occipital lobe is affected
- B. Wernicke's area in the left temporal lobe is affected** ✓
- C. Somatosensory cortex in the parietal lobe is affected
- D. Broca's area in the frontal lobe is affected

Q72 Professional Ability

A head nurse notices that patient care is delayed due to overlapping responsibilities among the team members. Which managerial action best demonstrates effective coordination in this situation?

- A. Allowing staff to choose their own tasks each day
- B. Clarifying each team member's specific duties for the shift** ✓
- C. Assigning all tasks to the most experienced nurse on duty
- D. Increasing the number of staff meetings for discussion

Q73 Professional Ability

Which of the following is the most appropriate position for a child during a rectal suppository administration?

- A. Sims'** ✓
- B. Supine
- C. Prone
- D. Sitting

Q74 Professional Ability

Which of the following is the most appropriate method for disposing of microbiologically contaminated sharps in a clinical laboratory setting?

- A. Autoclaving and disposing in regular trash
- B. Placing in puncture-resistant biohazard containers for incineration** ✓
- C. Disposing directly in regular trash
- D. Chemical disinfection followed by general disposal

Q75 Professional Ability

How can interdependence affect decision-making in a family?

- A. It leads to decisions made by outsiders
- B. It encourages joint participation in making choices** ✓
- C. It prevents any decisions from being made
- D. It excludes some members from decisions

Q76 Professional Ability

A nurse observes that a woman's lochia has transitioned from rubra to alba on the twelfth postpartum day. What does this indicate about her recovery process?

- A. The presence of lochia alba suggests delayed involution
- B. The patient should restrict her physical activity further
- C. The healing of the endometrial lining is progressing normally** ✓
- D. The patient is at increased risk of developing endometritis

Q77 Professional Ability

Which cell type is mainly involved during the early stage of inflammation?

- A. Lymphocytes
- B. Neutrophils** ✓
- C. Erythrocytes
- D. Basophils

Q78 Professional Ability

Which statement accurately describes the relationship between attention and perception?

- A. Attention is needed only for complex perception
- B. Attention acts as a filter for perception of information** ✓
- C. Perception does not require attention
- D. Perception occurs before attention can be directed



Q79 Professional Ability

What is the primary advantage of using models as audio-visual aids in health education?

- A. They are only used for children
- B. They stimulate the sense of touch and sight ✓
- C. They are easily disposable
- D. They do not require electricity

Q80 Professional Ability

Which microorganism is typically classified as a eukaryote?

- A. Viruses
- B. Cyanobacterium
- C. Bacteria
- D. Protozoa ✓

Q81 Professional Ability

In a clinical scenario, a patient with a skin infection requires a drug that acts directly at the site of infection. Which drug form should be selected?

- A. Capsule
- B. Suppository
- C. Syrup
- D. Topical cream ✓

Q82 Professional Ability

A community health nurse is assessing a 6-month-old infant during a home visit. Which assessment finding most strongly suggests the infant is meeting expected developmental milestones?

- A. The infant is able to sit with support and transfers objects between hands ✓
- B. The infant can say two-word sentences fluently with a clear understanding
- C. The infant regularly skips meals throughout the day and exhibits anhedonia
- D. The infant can walk unassisted for several steps and is able to run freely

Q83 Professional Ability

A public health nurse is conducting a health awareness mela in a rural area where most of the young adults are smokers. What should be the most appropriate aim of health education?

- A. Encouraging behavior change by providing information and support ✓
- B. Focusing only on the problems and dangers of smoking
- C. Teaching common surgical procedures and care after surgery among adults
- D. Performing diagnostic evaluation to screen and distributing medication

Q84 Professional Ability

In gynecological nursing, why might artificial insemination be recommended as a fertility treatment?

- A. To prevent sexually transmitted infections
- B. To perform cancer screening
- C. When male infertility factors prevent natural conception ✓
- D. To treat infections in the reproductive tract

Q85 Professional Ability

Which dietary modification should be recommended for a patient with Meniere's disease to help control the symptoms?

- A. Increasing daily fluid intake
- B. Recommending a high-protein diet
- C. Encouraging caffeine consumption
- D. Restricting sodium intake ✓

Q86 Professional Ability

A female patient presents with localized pain and swelling at the opening of the genital tract, including the clitoris and vestibule. The nurse recognizes that this infection is limited to which anatomical region?

- A. Vulva ✓
- B. Uterus
- C. Cervix
- D. Vagina



Q87 Professional Ability

Which of the following best describes preventive pediatric care in child health nursing?

A. Promoting health and preventing disease in children ✓

B. Treating illnesses after they occur

C. Focusing solely on physical growth

D. Administering medication for all symptoms

Q88 Professional Ability

Which of the following best describes a person with dependent personality disorder?

A. Shows excessive emotional instability, unstable self-image and impulsivity

B. Exhibits persistent suspiciousness and deep-seated mistrust of others

C. Has difficulty making everyday decisions without advice or reassurance from others ✓

D. Displays a persistent pattern of violating the rights of others" without remorse

Q89 Professional Ability

Which two main techniques are commonly used to assess a patient's lung sounds during a physical assessment?

A. Auscultation and percussion ✓

B. Inspection and palpation

C. Percussion and inspection

D. Palpation and auscultation

Q90 Professional Ability

During orogastric feeding in a neonate, the nurse observes coughing and cyanosis. What should be the nurse's immediate response?

A. Stop the feeding and assess airway patency immediately ✓

B. Reposition the child and continue feeding slowly

C. Offer the infant a pacifier to calm down

D. Increase the feeding rate to complete faster

Q91 Professional Ability

A community health nurse is assigned to a village where an increase in hypertension cases has been observed. She organizes health screenings, provides dietary counseling, and refers detected cases for further management. Which level of prevention is primarily being applied in this scenario?

A. Tertiary prevention through rehabilitation services

B. Primary prevention through lifestyle education

C. Secondary prevention through early detection and intervention ✓

D. Primordial prevention through policy advocacy

Q92 Professional Ability

Which of the following is NOT a sign of true labour?

A. Increasing contraction intensity

B. Progressive cervical dilation

C. Regular contractions

D. Irregular contractions that subside with rest ✓

Q93 Professional Ability

A middle-aged man with poorly controlled diabetes develops a foot ulcer, which becomes infected with bacteria that are part of his normal skin flora. Which type of infection is this?

A. A zoonotic infection from animal contact

B. An endogenous infection from resident bacteria ✓

C. An exogenous infection from hospital staff

D. An exotic infection by drug-resistant bacteria

Q94 Professional Ability

Which of the following organs play(s) the primary role in maintaining fluid and electrolyte balance in the human body?

A. Stomach

B. Lungs

C. Kidneys ✓

D. Liver



Q95 Professional Ability

A new policy mandates the introduction of advanced wound care products in the ward. To integrate this change into the budget, which process should the nurse administrator prioritize?

- A. Distribute existing budget equally among all supplies
- B. Eliminate other essential items to offset new costs
- C. Ignore the policy until next year's budget cycle
- D. Evaluate product costs and revise expenditure forecasts ✓

Q96 Professional Ability

Who commonly pays the premium for health insurance in employer-sponsored plans?

- A. The government
- B. Charity organizations
- C. The patient's family
- D. The employer ✓

Q97 Professional Ability

To increase the effectiveness of the teaching-learning process in the ward among patients, the nurse should:

- A. Give as much information as he/she can in a short span of time
- B. Rely exclusively on written materials or media
- C. Ignore patient's concerns
- D. Focus on active learning involving the patient ✓

Q98 Professional Ability

During nebulization for a patient with chronic obstructive pulmonary disease (COPD), the nurse notes that the medication is not visibly misting. What is the best nursing action to address this issue?

- A. Ask the patient to hold their breath for 10 seconds after each inhalation
- B. Administer the next scheduled dose of medication immediately
- C. Increase the oxygen flow to the maximum setting on the wall
- D. Check for kinks in the tubing and ensure the device is connected ✓

Q99 Professional Ability

A nurse is educating a group of patients about diabetes management but notices that several participants are distracted due to background noises in the ward. Which barrier of communication is affecting the session?

- A. Environmental barrier ✓
- B. Semantic barrier
- C. Physical barrier
- D. Psychological barrier

Q100 Professional Ability

A doctor treats both physical symptoms and emotional stress in a patient, believing that the mind and body affect each other. Which theory does this approach best reflect?

- A. Materialism
- B. Eliminative Materialism
- C. Dualism ✓
- D. Behaviorism



General Ability

30 Questions • Answer Key

Q1 General Ability

Which Amendment Act made elementary education a fundamental right under Article 21A, mandating free and compulsory education for all children aged 6 to 14 years?

- A. 104th Amendment
- B. 86th Amendment ✓
- C. 73rd Amendment
- D. 101st Amendment

Q2 General Ability

Which constitutional amendment established an urban local government system in India in 1992?

- A. 74th Constitutional Amendment Act ✓
- B. 65th Constitutional Amendment Bill
- C. 73rd Constitutional Amendment Act
- D. 68th Constitutional Amendment Act

Q3 General Ability

All 69 people are standing in a row facing north. Tanay is 31st from the right end, while Lomasi is 28th from the left end. How many people are there between Tanay and Lomasi?

- A. 24
- B. 10 ✓
- C. 25
- D. 12

Q4 General Ability

Each vowel in the word CURTAIL is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. Which of the following letters will be third from the right in the new group of letters thus formed?

- A. C
- B. D
- C. A
- D. B ✓

Q5 General Ability

By applying Newton's law of gravitation to a falling object at the surface of the Earth, the acceleration due to gravity is given by $g = GM / R^2$. The symbol M represents the mass of the:

- A. Moon
- B. Falling object
- C. Sun
- D. Earth ✓

Q6 General Ability

What is the maximum number of electrons that can be present in the third shell ($n=3$) of an atom?

- A. 2
- B. 32
- C. 18 ✓
- D. 8

Q7 General Ability

Both skeletal and cardiac muscles have striations. Which feature distinguishes cardiac muscle from skeletal muscle?

- A. Absence of nucleus
- B. Multiple nuclei per cell
- C. Voluntary control
- D. Uninucleate ✓

Q8 General Ability

The largest four-digit number which when divided by 14, 9 and 8 leaves remainder 2 in each case is:

- A. 9234
- B. 9578 ✓
- C. 9584
- D. 9964



Q9 General Ability

Which Indian film actress won the 70th Filmfare Best Actor in a Leading Role (Female) award in 2025?

- A. Yami Gautam
- B. Radhika Apte
- C. Kangana Ranaut
- D. Alia Bhatt

**Q10 General Ability**

Which of the following is the primary international body that promotes global trade liberalization and economic globalization?

- A. European Free Trade Association (EFTA)
- B. Shanghai Cooperation Organization (SCO)
- C. African Continental Free Trade Area (AfCFTA)
- D. World Trade Organization (WTO)

**Q11 General Ability**

If fertilisation does not occur, what happens to the thickened uterine lining in females?

- A. It sheds as blood and mucous in menstruation
- B. It remains in the uterus permanently
- C. It is absorbed back into the body slowly
- D. It hardens and forms scar tissue

**Q12 General Ability**

Where did India begin Exercise MAITREE-XIV with Thailand in 2025?

- A. Meghalaya
- B. Arunachal Pradesh
- C. Sikkim
- D. Assam

**Q13 General Ability**

In 2025, India launched a homegrown microprocessor called DHRUV64. What is its key feature?

- A. 64-bit blockchain microprocessor
- B. 64-bit dual-core microprocessor
- C. 64-bit solar-powered chip
- D. 64-bit wireless data chip

**Q14 General Ability**

A neuron consists of a cell body, a nucleus, and many short, branched parts called _____.

- A. flagella
- B. villi
- C. dendrites
- D. cilia

**Q15 General Ability**

In a certain code language,
A + B means 'A is the son of B'
A - B means 'A is the wife of B'
A @ B means 'A is the daughter of B'
A # B means 'A is the mother of B'
Based on the above, how is S related to K if 'S + W # Y @ K'?

- A. Husband
- B. Father
- C. Son
- D. Brother

**Q16 General Ability**

Amit invested equal amounts at simple interest and compound interest, compounded annually, for 2 years at the same rate of 8% per annum. In the end, he found a difference of ₹52 between the two interests earned. What was the amount (in ₹) invested in each case?

- A. 7225
- B. 8125
- C. 7375
- D. 8475

**Q17 General Ability**

The gravitational force (F) between two objects with mass m_1 and m_2 ; is always _____ .

- A. Zero
- B. Repulsive
- C. Attractive
- D. Sometimes attractive, sometimes repulsive



Q18 General Ability

Which among the following is NOT a land resource?

- A. Soil
- B. Water
- C. Minerals
- D. Sunlight

**Q19 General Ability**

What should come in place of '?' in the given series based on the English alphabetical order?
JHK PNQ VTW BZC ?

- A. HFI
- B. HGK
- C. GEQ
- D. GFN

**Q20 General Ability**

Which of the following groups represents Indo-Aryan languages primarily spoken in the eastern region of India?

- A. Assamese, Bengali, Odia
- B. Bengali, Maithali, Konkani
- C. Konkani, Marathi, Gujarati
- D. Assamese, Konkani, Odia

**Q21 General Ability**

In a circuit, if the resistance is halved and the voltage remains the same, how does the power change?

- A. Power doubles
- B. Power quadruples
- C. Power remains the same
- D. Power halves

**Q22 General Ability**

Below are given two sets of numbers. In each set of numbers, a certain mathematical operation on the first number results in the second number. Similarly, certain mathematical operation on the second number results in the third number and so on. Which of the given options follows the same set of operations as in question?
(NOTE – A two/three digit number cannot be broken into individual digits for operations, e.g. if 37 is followed by 10, the operation cannot be 3+7 as a two digit number cannot be broken into individual digits.)

5 - 10 - 20 - 40 ; 3 - 6 - 12 - 24

- A. 6 - 12 - 24 - 48
- B. 6 - 10 - 12 - 14
- C. 11 - 22 - 24 - 28
- D. 3 - 6 - 12 - 23

**Q23 General Ability**

In which year was the East India Company founded to engage in trade with India and East and Southeast Asia?

- A. 1615
- B. 1600
- C. 1605
- D. 1610

**Q24 General Ability**

Which of the following physiographic divisions is a part of the Peninsular Plateau?

- A. The Islands
- B. The Himalayan Mountains
- C. The Northern Plains
- D. The Central Highlands

**Q25 General Ability**

A pipe can fill a tank in 6 hours. Another pipe can empty the filled tank in 42 hours. If both the pipes are opened simultaneously, then the time (in hours) in which the tank will be filled is:

- A. 9
- B. 8
- C. 10
- D. 7



Q26 General Ability

Which branch of chemistry deals with the study of elements and compounds that do not contain carbon-hydrogen bonds?

A. Physical chemistry

B. Inorganic chemistry ✓

C. Biochemistry

D. Organic chemistry

Q27 General Ability

A wave has a wavelength of 0.5 m and a frequency of 200 Hz. Its speed is _____.

A. 400 m/s

B. 200 m/s

C. 50 m/s

D. 100 m/s ✓

Q30 General Ability

The total surface area of 12 cubes and 17 cuboids is 968 sq. cm. Each cuboid is formed by joining two cubes face to face. If the length of each side of a cube is 'a' cm, then find the value of $\frac{a^3}{4} \times \frac{8-a}{4-a}$.

A. 8

B. 4

C. 6 ✓

D. 2

Q28 General Ability

The average of five numbers is 30. If one of the numbers is 34, what is the average of the remaining four numbers?

A. 27

B. 31

C. 29 ✓

D. 28

Q29 General Ability

Which statement best explains why non-metallic oxides generally react with bases?

A. Non-metallic oxides do not react with bases

B. Non-metallic oxides are basic in nature

C. Non-metallic oxides are neutral in nature

D. Non-metallic oxides are acidic in nature ✓

Professional Ability

70 Questions • Answer Key

Q31 Professional Ability

What is the influence of food in stomach on drug delivery system?

A. Change the intrinsic permeability of intestinal membrane

B. Change the enteric coating of drug

C. May alter the rate and extent of drug bioavailability ✓

D. Alter the color of drug

Q32 Professional Ability

What is the effect of adding a small amount of strong acid to a buffer solution of acetic acid and sodium acetate?

A. The pH increases significantly

B. The pH remains exactly the same

C. The pH settles near its original value ✓

D. The pH drops sharply to acidic value

Q33 Professional Ability

Which of the following routes is considered a non per oral extravascular route for drug absorption?

A. Oral

B. Buccal ✓

C. Gastric

D. Intravenous

Q34 Professional Ability

Methotrexate and Riboflavin are unsuitable for sustained release because they are absorbed through:

A. Pinocytosis

B. Passive diffusion

C. Active transport ✓

D. Paracellular diffusion



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Q35 Professional Ability

A pharmacist needs to distinguish between an unknown sample of aldehyde and ketone. Which chemical test would provide a positive result only for aldehydes and not for ketones?

- A. Schiff's test
- B. Iodoform test
- C. Tollen's reagent test ✓
- D. Sodium nitroprusside test

Q36 Professional Ability

Which organization establishes the Code of Pharmaceutical Ethics regarding advertising and displays in India?

- A. Medical Council of India
- B. Indian Pharmacopoeia Commission
- C. Central Drugs Standard Control Organisation
- D. Pharmacy Council of India ✓

Q37 Professional Ability

According to the code of pharmaceutical ethics, which of these statements is NOT allowed in advertising for medicines?

- A. Storage instructions
- B. Shelf-life information
- C. Product origin
- D. Misleading claim ✓

Q38 Professional Ability

What is a key advantage of rectal drug administration compared to oral?

- A. It eliminates all first-pass metabolism
- B. It can be used when a patient is vomiting ✓
- C. It is suitable for all drugs
- D. It always has faster onset than intravenous

Q39 Professional Ability

According to the Lewis acid-base concept, a Lewis acid is defined as a/an:

- A. Proton acceptor
- B. Electron acceptor ✓
- C. Electron donor
- D. Proton donor

Q40 Professional Ability

Which of the following concentration range of sucrose acts as a self preservative in monophasic liquid dosage forms?

- A. 20-30%
- B. 60-85% ✓
- C. 50-55%
- D. 40-45%

Q41 Professional Ability

Which of the following is considered ethical in pharmaceutical advertising according to the Code?

- A. Promoting off-label uses
- B. Concealing side effects
- C. Comparing with non-pharmaceutical products
- D. Providing balanced information about drug use ✓

Q42 Professional Ability

Why is the mouth of the fermentation vessel covered with muslin cloth during preparation of Arista and Asava?

- A. To enhance sweetness
- B. To maintain temperature
- C. To prevent evaporation
- D. To allow air exchange and prevent contamination ✓

Q43 Professional Ability

A pharmacy student is given a list of medicinal plants and asked to organize them for quick reference in a drug store. Which classification system should he use to ensure drugs are easy to locate ?

- A. Taxonomical classification
- B. Alphabetical classification ✓
- C. Morphological classification
- D. Chemical classification

Q44 Professional Ability

Which combination of biological factors must be considered together when designing a controlled drug delivery system for oral use?

- A. Storage temperature and humidity
- B. Gastrointestinal motility and enzyme activity ✓
- C. Capsule size and taste
- D. Tablet weight and shape



Q45 Professional Ability

When submitting a herbal medicinal product for marketing authorization in Europe requiring efficacy comparable to conventional medicines, which guideline applies?

- A. EU Regulation 536/2014 on clinical trials
- B. EU Directive 2001/83/EC as amended by Directive 2004/24/EC ✓
- C. ICH S7A Safety Pharmacology Studies
- D. ICH Q10 Pharmaceutical Quality System

Q46 Professional Ability

Aldehydes and ketones both undergo nucleophilic addition reactions. Which property do they both share that enables this reaction?

- A. Presence of an alkene group
- B. Presence of a carbonyl group ✓
- C. Presence of an ether group
- D. Presence of a carboxyl group

Q47 Professional Ability

Which of the following ICH guidelines covers the design and conduct of clinical trials for herbal drugs?

- A. Quality (Q) Guidelines
- B. Multidisciplinary (M) Guidelines
- C. Safety (S) Guidelines
- D. Efficacy (E) Guidelines ✓

Q48 Professional Ability

Which of the following acids has the lowest pKa value, indicating the highest acid strength?

- A. Acetic acid
- B. Sulphuric acid ✓
- C. Formic acid
- D. Citric acid

Q49 Professional Ability

If a chemist identifies a molecule as both a proton donor and an electron-pair acceptor, which two acid-base concepts does this relate to?

- A. Bronsted-Lowry and Lewis ✓
- B. Arrhenius and Bronsted-Lowry
- C. Arrhenius and Lewis
- D. Earlier and Arrhenius

Q50 Professional Ability

Which of the following is an irreversible instability in emulsions?

- A. Flocculation
- B. Creaming
- C. Phase inversion
- D. Cracking ✓

Q51 Professional Ability

Which of the following is a typical symptom of acute myocardial infarction that helps distinguish it from angina pectoris?

- A. Sudden severe chest pain lasting more than 20 minutes ✓
- B. Mild chest discomfort after exercise
- C. Pain only during deep breathing
- D. Chest pain relieved by rest

Q52 Professional Ability

In the context of dietary fibres and complex carbohydrates, which health claim is most strongly supported by scientific evidence?

- A. All dietary fibres are completely digested in the small intestine.
- B. Complex carbohydrates lead to insulin resistance when consumed in high amounts.
- C. Dietary fibre intake reduces the risk of coronary heart disease. ✓
- D. Dietary fibre causes permanent weight loss without diet modification.

Q53 Professional Ability

Which of the following is commonly used as a neutral preservative in monophasic liquid dosage forms?

- A. Methyl paraben
- B. Phenol
- C. Benzoic acid
- D. Benzyl alcohol ✓

Q54 Professional Ability

Which mechanism is suggested as one way fiber can lower plasma cholesterol?

- A. Increasing blood glucose
- B. Reducing water intake
- C. Increasing protein synthesis
- D. Binding bile acids ✓



Q55 Professional Ability

During an acid-base titration, a student uses a weak acid and a strong base. What will be the pH at the equivalence point?

A. Greater than 7



B. Depends on initial concentration of acid

C. Exactly 7

D. Less than 7

Q56 Professional Ability

Which of following is commonly used as an antiseptic in surgical scrubs?

A. Phenol

B. Chlorhexidine



C. Ethylene oxide

D. Sodium hypochlorite

Q57 Professional Ability

How does the addition of a co-emulsifier like cetyl alcohol affect an emulsion?

A. It improves the stability of the emulsion



B. It turns oil-in-water to water-in-oil type

C. It decreases the viscosity significantly

D. It increases the solubility of oil phase

Q58 Professional Ability

Evaluate the following scenario: An elderly patient is prescribed a high-fibre diet for chronic constipation. Which precaution should be emphasized to avoid adverse effects?

A. Take fibre supplements immediately before bedtime to enhance overnight bowel movement.

B. Ensure adequate fluid intake to prevent gastrointestinal obstruction.



C. Restrict fibre intake if taking calcium supplements to prevent mineral binding interactions.

D. Increase fibre intake rapidly to maximize benefits.

Q59 Professional Ability

Which of the following is a commonly used antiplatelet drug?

A. Furosemide

B. Paracetamol

C. Metformin

D. Aspirin



Q60 Professional Ability

Which of following processes is required for clarifying injectable solutions by removing submicron contaminants?

A. Slow-speed mixer with filter paper

B. Gravity sedimentation tank

C. Super centrifuge operating at maximum safe rotational speed



D. Drying oven at high temperature

Q61 Professional Ability

Which property makes glutaraldehyde suitable for sterilizing medical equipment?

A. Narrow-spectrum antimicrobial action

B. Low boiling point for easy evaporation

C. Broad-spectrum antimicrobial action including spores



D. Selective activity against spores only

Q62 Professional Ability

Which activity is specifically included under the Quality Guidelines for herbal drug assessment?

A. Clinical trial conduct

B. Botanical identification



C. Preparation of Common Technical Document

D. Genotoxicity studies

Q63 Professional Ability

Which of the following statements best describes the mechanism of acid-base catalysis in the hydrolysis of esters?

A. The base catalyst removes a proton from the alcohol group, reducing nucleophilicity and inhibiting the reaction.

B. The base catalyst adds a hydroxide ion to the ester, forming a stable intermediate that halts the reaction.

C. The acid catalyst donates an electron pair to the carbonyl group, decreasing its reactivity.

D. A proton is transferred from the acid catalyst to the carbonyl oxygen, increasing electrophilicity and facilitating nucleophilic attack.



Q64 Professional Ability

In a clinical scenario where bacteria produce aminoglycoside acetyltransferase, which aminoglycoside would likely retain efficacy and why?

- A. Gentamicin, because it has no amino groups
- B. Amikacin, due to its L-hydroxyaminobuteryl group at N-1 ✓
- C. Neomycin, due to its high polarity
- D. Streptomycin, due to absence of 2-deoxystreptamine nucleus

Q65 Professional Ability

If a compound inhibits the site between cytochrome b and c1, which of the following is most likely that compound?

- A. Antimycin A ✓
- B. Rotenone
- C. Cyanide
- D. Malonate

Q66 Professional Ability

Which of the following is an external factor influencing consumer buying behaviour?

- A. Perception
- B. Economic changes ✓
- C. Personal motivation
- D. Attitude

Q67 Professional Ability

Which of the following best defines a drug?

- A. A substance that causes addiction
- B. A nutrient essential for growth
- C. A chemical used in laboratory experiments
- D. A substance used to diagnose, prevent, or treat diseases ✓

Q68 Professional Ability

A patient with significant weight loss due to cancer is started on an appetite stimulant. Which of the following drugs, a progestational agent, is most appropriate for this indication?

- A. Lorcaserin
- B. Orlistat
- C. Naltrexone
- D. Megestrol acetate ✓

Q69 Professional Ability

What is the primary purpose of using chemical methods in sterilization?

- A. To remove visible dirt
- B. To remove toxic residues
- C. To improve nutrient content of media
- D. To eliminate microorganisms ✓

Q70 Professional Ability

Which of the following are used as in-vitro anticoagulants?

- A. Calcium complexing agents ✓
- B. Phenindione
- C. Coumarin derivatives
- D. Indandione derivatives

Q71 Professional Ability

How can temperature fluctuations during storage destabilize a suspension?

- A. They permanently eliminate all risks of particle caking.
- B. They make all particles dissolve completely.
- C. They can cause particle growth or Ostwald ripening, affecting particle size distribution and polymorphic form. ✓
- D. They increase the viscosity of the suspension, making it more stable.

Q72 Professional Ability

In the context of alphabetical classification, what is the primary advantage?

- A. Previous and successive drug entries are related
- B. Biological source can be traced
- C. Pharmacological action of drugs can be identified
- D. Easy retrieval of drug information ✓

Q73 Professional Ability

A consumer's negative experience with side effects from a drug leads to avoidance of all similar products. Which characteristic explains this behavior?

- A. Preference for attractive packaging
- B. Influence of past experience on future choices ✓
- C. Increased price sensitivity toward medicines
- D. Influence of celebrity endorsement



Q74 Professional Ability

Which statement best describes an advantage of biphasic systems over monophasic systems?

- A. Are always clear solutions
- B. Can deliver insoluble drugs ✓
- C. Have no risk of microbial growth
- D. Do not need flavoring agents

Q75 Professional Ability

According to Stokes' law, which change will most effectively reduce the rate of creaming in an emulsion?

- A. Increasing the density difference between phases
- B. Decreasing the size of the droplets ✓
- C. Increasing the droplet size
- D. Decreasing the viscosity of the external phase

Q76 Professional Ability

What best describes a proprietary (brand) name in pharmacology?

- A. It is the universally accepted scientific name.
- B. It is the name given by the manufacturer and is their trademark. ✓
- C. It is the chemical structure name of the drug.
- D. It is the name given by the government agency.

Q77 Professional Ability

What is the sequence of the four stages of equipment qualification as per ICH and US FDA guidelines, which ensures reliability during manufacturing?

- A. Design, installation, operational & performance ✓
- B. Installation, operational, performance & design
- C. Installation, performance, operational & design
- D. Design, installation, performance & operational

Q78 Professional Ability

Which of the following is NOT typically considered an Operational Qualification test for an HPLC unit?

- A. Pump flow rate
- B. Detector wavelength accuracy
- C. Gradient linearity
- D. Routine analytical tests ✓

Q79 Professional Ability

If poorly water soluble drugs are formulated as emulsions then which of the following is a major advantage of using emulsions as a biphasic liquid dosage form?

- A. They are less expensive to manufacture than all other dosage forms
- B. They always mask the taste of all drugs completely
- C. They require no special storage conditions
- D. They enhance dissolution rates and bioavailability of the drug ✓

Q80 Professional Ability

What is the role of plasmids in the application of rDNA technology in pharmaceutical biotechnology?

- A. Enzymes for digestion
- B. Nutrients for cell growth
- C. Markers for identification
- D. Vectors for gene transfer ✓

Q81 Professional Ability

Which symptom is commonly associated with acute myocardial infarction?

- A. Frequent urination
- B. Intermittent cough
- C. Severe chest pain ✓
- D. Fever

Q82 Professional Ability

Which compounds react with the oxidized form of cytochrome oxidase?

- A. Cyanide and azide ✓
- B. Rotenone and amylal
- C. Antimycin A and BAL
- D. Carbon monoxide and piercidin A

Q83 Professional Ability

Which of the following is NOT typically used as a flavor in oral monophasic liquids?

- A. Strawberry
- B. Orange
- C. Vanilla
- D. Copper sulfate ✓



Q84 Professional Ability

Why are aminoglycosides generally not effective against anaerobic bacteria?

- A. Anaerobic bacteria lack a cell wall
- B. Aminoglycosides are inactivated by anaerobes
- C. Aminoglycosides require oxygen-dependent transport to enter cells ✓
- D. Anaerobes produce more protein than aerobes

Q85 Professional Ability

If a patient indicates myocardial infarction due to cocaine use, which etiological category does this fall under?

- A. Coronary artery anomaly
- B. Drug-induced ischemia ✓
- C. Peripheral vascular disease
- D. Nonmodifiable risk factor

Q86 Professional Ability

Which adverse effect is most commonly associated with the long-term use of antiplatelet drugs?

- A. Hyperglycemia
- B. Hypertension
- C. Constipation
- D. Bleeding ✓

Q87 Professional Ability

Which statement best describes Bronsted acids in the context of acid catalysis?

- A. Bronsted acids are proton donors that can cause acid catalysis ✓
- B. Bronsted acids are proton acceptors
- C. Bronsted acids are always undissociated
- D. Bronsted acids are only H⁺ ions

Q88 Professional Ability

What is the recognition sequence for the restriction endonuclease EcoRI?

- A. GAATTC ✓
- B. ATCGAT
- C. GCGCGC
- D. CCTAGG

Q89 Professional Ability

A dietitian is tasked with planning meals for a client who needs increased stool bulk and also wants to help manage blood cholesterol. Which of the following combination of foods best meets both requirements?

- A. Eggs and grilled chicken
- B. Whole grain cereals and oats ✓
- C. White bread and butter
- D. Refined pasta and cheese

Q90 Professional Ability

A pharmacist is tasked with choosing an appropriate indicator for titrating a weak acid with a strong base. Which factor should most influence their choice?

- A. The container material used
- B. The pH range at the equivalence point ✓
- C. The cost of the indicator
- D. The color of the indicator

Q91 Professional Ability

Which class of appetite suppressants does fluoxetine belong to?

- A. Central catecholamine pathway drugs
- B. Amphetamines
- C. Central serotonin pathway drugs ✓
- D. Sympathomimetic drugs

Q92 Professional Ability

When using a super centrifuge for separating oil and water emulsions, what operational parameter most significantly affects the sharpness of phase separation?

- A. Temperature of the feed mixture
- B. Diameter of the feed tube
- C. Viscosity of the lubricating oil
- D. Rotational speed of the centrifuge bowl ✓

Q93 Professional Ability

Which parameter is affected when an acid catalyst is added to a reaction?

- A. Temperature
- B. Activation energy ✓
- C. Enthalpy change
- D. Free energy



Q94 Professional Ability

Why is the kasaya strained before being kept in the fermentation vessel during Arista preparation?

- A. To reduce sugar content
- B. To increase temperature rapidly
- C. To initiate fermentation early
- D. To remove solid particles and obtain a clear liquid for fermentation ✓

Q95 Professional Ability

A patient receives a subcutaneous drug injection. To enhance drug absorption, the nurse co-administers hyaluronidase. What is the primary effect of this enzyme?

- A. It decreases blood flow to the site
- B. It induces local vasoconstriction
- C. It increases drug-tissue contact area by breaking down connective tissue ✓
- D. It promotes drug precipitation at the site

Q96 Professional Ability

Which of the following best describes the composition of Schiff's reagent used in detecting aldehydes?

- A. Alkaline solution of cupric ion complexed with sodium potassium tartrate ions
- B. Rosalinine hydrochloride dissolved in water ✓
- C. Alkaline solution of cupric ion complexed with citrate ions
- D. Ammoniacal solution of silver oxide

Q97 Professional Ability

Which initial step is involved in the preparation of Arista according to Ayurvedic formulation?

- A. Adding honey at the beginning
- B. Directly fermenting whole herbs
- C. Coarsely powdering the drugs and preparing kasaya ✓
- D. Dissolving sugar in water

Q98 Professional Ability

In the context of pharmaceutical marketing, how does a consumer's self-concept most likely influence their buying behaviour?

- A. It has no effect on product involvement.
- B. It always leads to impulse purchases.
- C. It shapes preferences for products that align with their self-image. ✓
- D. It prevents information processing about products.

Q99 Professional Ability

Which of the following best describes the difference between the alphabetical classification of drugs in the European Pharmacopoeia and the United States Pharmacopoeia (U.S.P.)?

- A. European Pharmacopoeia uses Latin names, U.S.P. uses English names ✓
- B. Both use Latin names
- C. U.S.P. uses scientific names, European Pharmacopoeia uses common names
- D. Both use English names

Q100 Professional Ability

What is the main goal of using rDNA technology in pharmaceuticals?

- A. To change tablet color
- B. To increase tablet size
- C. To improve taste of medicines
- D. To produce therapeutic proteins ✓



General Ability

30 Questions • Answer Key

Q1 General Ability

Which of the following is a key feature of the Right to Information Act?

- A. Only MPs can ask for information
- B. Officials can hide any data
- C. Citizens must get court approval to ask questions
- D. Citizens can access government records and decisions ✓

Q2 General Ability

The ratio of the heights of a right circular cone and a right circular cylinder is 9 : 2 and the ratio of the radii of their bases is 3 : 2. If the volume of the cylinder is 448 cm^3 , then the volume (in cm^3) of the cone is:

- A. 1509
- B. 1512 ✓
- C. 1521
- D. 1519

Q3 General Ability

Sumit travels from A to B at a speed of 40 km/hr in 72 minutes and from B to C at a speed of 50 km/hr in 42 minutes. Find the average speed of Sumit from A to C. (Rounded off your answer to two decimal places)

- A. 45.60 km/h
- B. 43.68 km/h ✓
- C. 42.50 km/h
- D. 45.45 km/h

Q4 General Ability

The power of accommodation of the human eye refers to the ability of the eye to:

- A. Change the focal length of the eye lens ✓
- B. Change the distance between the retina and lens
- C. Adjust the intensity of light entering the eye
- D. Change the size of the pupil

Q5 General Ability

Which of the following statements about soap and its cleaning action is INCORRECT?

- A. Soap molecules have both hydrophilic and hydrophobic ends, allowing them to interact with both water and oil.
- B. Soap molecules form micelles that trap oil and grease, allowing them to be dispersed in water and washed away.
- C. The hydrophilic part of a soap molecule interacts with hydrocarbons, while the hydrophobic part is attracted to water. ✓
- D. The hydrophobic part of a soap molecule repels water, aiding in the removal of oily substances.

Q6 General Ability

A science project requires a real, inverted image of the same size as the object using a concave mirror. Based on the mirror formula, where should the object be placed relative to the mirror?

- A. Beyond the center of curvature ($u < 2f$)
- B. At the focal point ($u = f$)
- C. At the center of curvature ($u = 2f$) ✓
- D. Between the pole and the focus ($u > f, u < 0$)

Q7 General Ability

Which of the following describes the main difference between simple permanent tissue and complex permanent tissue?

- A. Simple permanent tissue is made of one type of cell, whereas complex permanent tissue is made of different types of cells. ✓
- B. Simple permanent tissue is present only in leaves, whereas complex permanent tissue is present only in roots.
- C. Simple permanent tissue is always dead, whereas complex permanent tissue is always living.
- D. Simple permanent tissue stores food only, whereas complex permanent tissue performs photosynthesis only.



Q8 General Ability

Which of the following Indian states is famous for the traditional Warli painting style?

- A. Kerala
- B. Maharashtra ✓
- C. Punjab
- D. Rajasthan

Q9 General Ability

In a certain code language, 'TOUR' is coded as '7542' and 'TURN' is coded as '7485'. What is the code for 'N' in the given code language?

- A. 8 ✓
- B. 7
- C. 5
- D. 4

Q10 General Ability

In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

3 - 28
5 - 126

- A. 6 - 36
- B. 2 - 9 ✓
- C. 4 - 63
- D. 10 - 100

Q11 General Ability

Based on the English alphabetical order, three of the following four letter cluster pairs are alike in a certain way and thus form a group. Which is the one that does not belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster)

- A. EN:HR
- B. RM:UQ
- C. OR:RY ✓
- D. CG:FK

Q12 General Ability

In a row of people all facing north, Nimat is 29th from the left end. Pemila is 44th from the left end. Pemila is exactly between Nimat and Kishan. If Kishan is 9th from the right end of the row, how many people are there in the row?

- A. 68
- B. 64
- C. 67 ✓
- D. 66

Q13 General Ability

The Donkarayi Power House is located in which of the following states of India?

- A. Karnataka
- B. Tamil Nadu
- C. Andhra Pradesh ✓
- D. Kerala

Q14 General Ability

The cleaning action of soap is due to the formation of:

- A. Precipitates
- B. Micelles ✓
- C. Hydration shells
- D. Glycerol

Q15 General Ability

Every child inherits an X chromosome from their mother. Which reasoning best explains this biological certainty?

- A. Mothers pass both X and Y chromosomes.
- B. Mothers produce only X-bearing eggs. ✓
- C. Mothers selectively pass X or Y chromosomes.
- D. X inheritance from mother depends on environment.

Q16 General Ability

Which number must be added to 225 so that the square root of the result is exactly 16?

- A. 25
- B. 31 ✓
- C. 19
- D. 16



Q17 General Ability

Refer to the following letter, symbol series and answer the question. Counting to be done from left to right only (Left) % E & € F * U \$ O & K \$ U B % M © & W * L % (Right) How many such symbols are there each of which is immediately preceded by a letter and also immediately followed by a symbol?

A. 4

B. 1

C. 2

D. 3

Q18 General Ability

Who was elected as the 15th Vice President of India in September 2025?

A. CP Radhakrishnan

B. P Chidambaram

C. B Sudershan Reddy

D. Jagdeep Dhankhar

Q19 General Ability

Kaveri Vaaman is a variety of which fruit developed by the Bhabha Atomic Research Centre (BARC) as the country's first mutant variety of that fruit, officially released by the Government of India in November 2025?

A. Grapes

B. Guava

C. Banana

D. Apple

Q20 General Ability

If you need to recover salt from a saltwater solution in a laboratory, which process should you use?

A. Filtration

B. Distillation

C. Decantation

D. Chromatography

Q21 General Ability

In which **Indian region** were '**guls**' or '**kuls**' traditionally constructed as **diversion channels to carry water from mountain streams for agricultural irrigation**?

A. Eastern Coastal Plains

B. Deccan Plateau

C. Indo-Gangetic Plains

D. Western Himalayas

Q22 General Ability

Which process does NOT occur during aerobic respiration in animal cells?

A. Fermentation

B. Glycolysis

C. Krebs cycle

D. Electron transport chain

Q23 General Ability

What was the budget allocation for infrastructure spending in India for the financial year 2023-24?

A. ₹12 lakh crore

B. ₹10 lakh crore

C. ₹5 lakh crore

D. ₹7.5 lakh crore

Q24 General Ability

If the physical conditions of the Earth's atmosphere suddenly became completely stationary, how would this affect the twinkling of stars?

A. Stars would stop twinkling

B. Stars would change color

C. Stars would twinkle more rapidly

D. Stars would appear larger

Q25 General Ability

A book is marked at ₹170 with a 20% discount. What additional percentage discount should be given to reduce the net selling price to ₹102?

A. 23%

B. 30%

C. 25%

D. 27%

Q26 General Ability

Velamala Simmanna was chosen for Lok Nayak Foundation's (LNF) literary award 2025 for his contributions to the promotion of which language and literature?

A. Tamil

B. Kannada

C. Malayalam

D. Telugu



Q27 General Ability

A student scored 62 marks in theory and 22 marks in practical. The weightages of 7 and 3 are assigned to the theory and the practical components respectively for calculating the final score. The weighted average score of the student is:

A. 50



B. 54

C. 52

D. 56

Q28 General Ability

Which of the following categories of fundamental rights is NOT correctly matched with their respective articles from the Constitution of India?

A. Right against exploitation : Articles 23 & 24

B. Right to freedom : Articles 19–22

C. Right to equality : Articles 15–21



D. Right to freedom of religion : Articles 25–28

Q29 General Ability

Which component is used to open or close an electric circuit?

A. Resistor

B. Ammeter

C. Electric bulb

D. Switch

**Q30 General Ability**

Who among the following was a Sanskrit scholar and helped in opening about 35 girls' schools in Bengal?

A. Swami Vivekananda

B. Ishwar Chandra Vidyasagar



C. Swami Dayanand Saraswati

D. Raja Ram Mohan Roy

Professional Ability

70 Questions • Answer Key

Q31 Professional Ability

What is acid-base catalysis in chemical kinetics?

A. Formation of precipitate by acids or bases

B. Slowing of reaction by acids or bases

C. Neutralization of acids and bases

D. Acceleration of reaction by acids or bases

**Q32 Professional Ability**

Which of the following is a biological factor that can influence the design of a controlled drug delivery system?

A. Enzyme activity



B. Tablet hardness

C. Packaging material

D. Stirring speed

Q33 Professional Ability

Which statement best describes the action of cyanide in the respiratory chain?

A. Cyanide increases glucose breakdown in glycolysis.

B. Cyanide acts as a substrate for ATP synthase.

C. Cyanide stimulates the citric acid cycle.

D. Cyanide blocks electron transfer to oxygen, preventing ATP production.

**Q34 Professional Ability**

If an emulsion separates into two layers that cannot be redispersed by shaking, what has likely occurred?

A. Homogenization

B. Cracking



C. Creaming

D. Phase inversion

Q35 Professional Ability

Which colorant is commonly used to impart a yellow color to oral liquid preparations?

A. Carmoisine

B. Erythrosine

C. Sunset yellow



D. Brilliant blue

Q36 Professional Ability

Which product is commonly produced using recombinant DNA (rDNA) technology?

A. Aspirin

B. Ibuprofen

C. Vitamin C

D. Insulin



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Q37 Professional Ability

A pharmaceutical company needs to sterilize heat-sensitive plastic syringes. Which chemical method is most suitable?

A. Ethylene oxide gas sterilization



B. Direct flaming

C. Moist heat sterilization

D. Autoclaving

Q38 Professional Ability

Consumer buying behaviour is referred to which of the following process?

A. Manufacturing products for sale

B. Storing products for future use

C. Selecting, using, or disposing products to satisfy needs and desires



D. Transporting products to retail stores

Q39 Professional Ability

In the preparation of Arista, what is the role of keeping the fermentation container in a special room, underground cellar, or heap of paddy?

A. To expose the mixture to sunlight

B. To add aroma from surroundings

C. To maintain a constant temperature during fermentation



D. To cool down the mixture rapidly

Q40 Professional Ability

In acid-base titrations, which indicator would you select for titrating a weak acid with a strong base and why?

A. Litmus, because it changes color in all types of titrations.

B. Bromothymol blue, because it changes color at pH 6.

C. Phenolphthalein, because its endpoint pH matches the equivalence point of the titration.



D. Methyl orange, because it changes color at pH 4.

Q41 Professional Ability

What is the primary mechanism by which phentermine decreases appetite?

A. By blocking serotonin receptors

B. By inhibiting intestinal absorption of fats

C. By stimulating gastric acid secretion

D. By increasing norepinephrine and dopamine levels in the brain

**Q42 Professional Ability**

What is a major advantage of using non-invasive transmucosal routes such as nasal or rectal for drug administration?

A. Reduced drug potency

B. Greater systemic availability



C. Delayed onset of action

D. Increased gastrointestinal irritation

Q43 Professional Ability

When dilute hydrochloric acid catalyzes the inversion of sucrose, what is the observed order of the reaction?

A. First order



B. Second order

C. Zero order

D. Third order

Q44 Professional Ability

According to ICH guidelines, what is a primary purpose of conducting stability testing (Q1A-Q1F) on herbal drugs?

A. To determine the geographical origin of the plant material

B. To ensure maintenance of quality and effectiveness throughout the shelf life



C. To establish manufacturing costs

D. To identify traditional uses of the herb

Q45 Professional Ability

Which of the following statements best describes a strong acid in acid-base equilibria?

A. Completely ionizes in water



B. Partially ionizes in water

C. Does not ionize in water

D. Forms a strong conjugate base

Q46 Professional Ability

Which of the following best describes the content required in an efficacy dossier under EU guidelines for herbal products?

A. Clinical data supporting therapeutic claims



B. Manufacturing site inspection reports

C. Adverse event reporting forms only

D. Certificates of analysis only



Q47 Professional Ability

Which of the following illustrates why alphabetical classification of crude drugs may not be ideal for educational purposes?

- A. It highlights all chemical differences
- B. It fails to teach relationships between drugs of similar sources ✓
- C. It only classifies synthetic drugs
- D. It always groups drugs by part used

Q48 Professional Ability

A chemist wants to reduce a ketone to an alkane in a basic medium using hydrazine. Which reaction mechanism should they select to achieve this transformation?

- A. Witting reaction
- B. Wolff-Kishner reduction ✓
- C. Clemmensen reduction
- D. Cannizzaro reaction

Q49 Professional Ability

Which statement best describes dietary fibers in plants?

- A. They are parts like leaves, stems, fruits, and seeds that cannot be digested or absorbed by the body. ✓
- B. They are produced by animals.
- C. They are nutrients easily absorbed by the body.
- D. They are simple sugars used for immediate energy.

Q50 Professional Ability

According to the Code of Pharmaceutical Ethics, which of the following is NOT permitted in advertising display materials for medicines by pharmacists?

- A. Displaying prices of medicines
- B. Listing the pharmacist's qualifications
- C. Promoting a healthy lifestyle
- D. Using the word 'Cure' in reference to an ailment ✓

Q51 Professional Ability

Which chemical sterilant is effective against bacterial spores but requires special handling due to toxicity?

- A. Isopropyl alcohol
- B. Cresol
- C. Chlorhexidine gluconate
- D. Glutaraldehyde ✓

Q52 Professional Ability

What is the primary function of dietary fiber in human digestive system?

- A. It increases cholesterol absorption.
- B. It promotes healthy bowel movements. ✓
- C. It acts as a vitamin supplement.
- D. It provides energy.

Q53 Professional Ability

If an Asava preparation exhibits sour taste and excessive effervescence after fermentation, what is the most likely cause as per Ayurvedic formulation principles?

- A. Insufficient addition of sugar
- B. Under-fermentation due to low temperature
- C. Overuse of Dhataki flowers
- D. Contamination by unwanted microorganisms ✓

Q54 Professional Ability

Which form of chlorine is most commonly used for disinfecting water supplies and swimming pools?

- A. Hypochlorites ✓
- B. Fluorides
- C. Chloramines
- D. Iodophores

Q55 Professional Ability

Which statement best describes the common chemical structure of aminoglycoside antibiotics?

- A. They lack any ring structure in their core
- B. They contain a highly substituted 1,3-diaminocyclohexane central ring ✓
- C. They are characterized by a single amine group on a benzene ring
- D. They have an unsubstituted cyclohexane ring

Q56 Professional Ability

What is the primary mechanism of action of Ticlopidine as an antiplatelet drug?

- A. It directly activates thrombin receptors.
- B. It increases platelet production in bone marrow.
- C. It stimulates ADP release from platelets.
- D. It blocks P2Y₁ type purinergic receptors on platelets and inhibits ADP-induced aggregation. ✓



Q57 Professional Ability

Which organism produces aminoglycoside antibiotics?

- A. Yeasts
- B. Fungi
- C. Algae
- D. Actinomycetes ✓

Q58 Professional Ability

Which of the following best describes the main focus of pharmacology as a discipline?

- A. Study of drug pricing strategies
- B. Study of drug packaging methods
- C. Study of the effects of drugs on living systems ✓
- D. Study of drug compounding techniques

Q59 Professional Ability

Which of the following best describes a consumer in pharmaceutical marketing?

- A. A wholesaler who buys products to sell to others
- B. A retailer who stocks products for sale
- C. A company purchasing products to manufacture other goods
- D. An individual who buys products for personal use and not for resale ✓

Q60 Professional Ability

Which drug is commonly used to prevent stroke in patients with a history of Transient ischemic attack?

- A. Atorvastatin
- B. Aspirin ✓
- C. Furosemide
- D. Digoxin

Q61 Professional Ability

In CRDDS, why should the absorption rate be faster than the release rate from the dosage form?

- A. To prevent dose dumping ✓
- B. To increase shelf life
- C. To improve taste masking
- D. To enhance packaging

Q62 Professional Ability

A patient with an exocrine pancreatic deficiency is prescribed pancreatin. Based on the information given, which feature makes pancreatin appropriate for this patient?

- A. It acts as a gastric acid suppressant to reduce stomach acidity.
- B. It stimulates insulin secretion from the pancreas.
- C. It provides enzymes (amylase, trypsin, lipase) needed for digestion. ✓
- D. It directly increases appetite through central nervous system stimulation.

Q63 Professional Ability

Which scenario best illustrates a practical challenge when using alphabetical classification for large pharmacopoeias?

- A. Grouping drugs by plant parts
- B. Assigning drugs by chemical structure
- C. Difficulty in locating a drug if its spelling is unknown ✓
- D. Classifying drugs by their pharmacological action

Q64 Professional Ability

According to the Bronsted-Lowry concept, which of the following acts as a proton donor?

- A. Ammonia
- B. Water
- C. Sodium chloride
- D. Hydrochloric acid ✓

Q65 Professional Ability

What is the common functional group present in both aldehydes and ketones?

- A. Amino group
- B. Carboxyl group
- C. Carbonyl group ✓
- D. Hydroxyl group

Q66 Professional Ability

Which of the following is a common advantage of suspensions as biphasic liquid dosage forms?

- A. Do not require shaking before use
- B. Can mask the taste of unpleasant drugs ✓
- C. Remain physically stable without agitation
- D. Never separate into layers



Q67 Professional Ability

Which of the following is not a natural coloring agent used in monophasic liquid dosage forms?

A. Coal-tar



B. Cochineal

C. Caramel

D. Carotenoids

Q68 Professional Ability

What is a disadvantage of suspensions when compared to solutions?

A. Suspensions require shaking before use to ensure uniformity of dose



B. Suspensions are never used for insoluble drugs

C. Suspensions have faster absorption than solutions

D. Suspensions do not require containers

Q69 Professional Ability

Which colorant is most suitable for use in a syrup intended for children, to improve appearance?

A. Oil-based pigment

B. Activated charcoal

C. Metallic powder

D. Water-soluble food dye

**Q70 Professional Ability**

In subcutaneous administration, which property of the drug does not affect its absorption rate?

A. Molecular weight

B. Lipid solubility

C. Gastric emptying time



D. Ionization of the drug

Q71 Professional Ability

What is the function of a vector in molecular cloning?

A. To separate DNA fragments by size

B. To sequence DNA bases

C. To replicate inserted DNA in a host cell



D. To cut DNA fragments

Q72 Professional Ability

According to the Code of Pharmaceutical Ethics, what is the ethical stance on using patient testimonials in pharmaceutical advertisements?

A. Patient testimonials should not be used as they may mislead the public.



B. Patient testimonials are mandatory for all new drugs.

C. Patient testimonials are encouraged if approved by the company.

D. Patient testimonials can be used only if the patient is a celebrity.

Q73 Professional Ability

How does the construction of a super centrifuge minimize emulsification during separation of two immiscible liquids?

A. By using a rough, textured interior surface to break up droplets.

B. By heating the mixture to decrease viscosity.

C. By introducing air bubbles to agitate the mixture.

D. By having a smooth, high-speed rotating bowl and gentle feed entry to reduce turbulence.

**Q74 Professional Ability**

Which dietary fiber, when fermented by colonic bacteria, produces short-chain fatty acids beneficial for gut health?

A. Inulin



B. Chitin

C. Cellulose

D. Lignin

Q75 Professional Ability

According to the earlier concept, what taste is characteristic of an acid?

A. Bitter

B. Salty

C. Sour



D. Sweet

Q76 Professional Ability

A patient is suspected to have ingested a compound with a carbonyl group that does not react with Fehling's solution. Which of the following is most likely?

A. The compound is an alcohol

B. The compound is a carboxylic acid

C. The compound is a ketone



D. The compound is an aldehyde



Q77 Professional Ability

An emulsifying agent is used to stabilize an oil-in-water emulsion because of its:

- A. High sweetness
- B. Ability to reduce interfacial tension ✓
- C. Strong odor
- D. Bright color

Q78 Professional Ability

If an instrument is being installed in a new lab, which qualification phase should be documented according to the context?

- A. Design Qualification
- B. Process Validation
- C. Vendor Qualification
- D. Installation Qualification ✓

Q79 Professional Ability

Which factor enhances drug absorption from a rectal suppository?

- A. Presence of food in the rectum
- B. High gastric acidity
- C. Thickened skin
- D. Increased local blood flow ✓

Q80 Professional Ability

Why is recombinant DNA technology preferred for vaccine development over traditional methods?

- A. It improves drug flavor.
- B. It reduces tablet bitterness.
- C. It increases pill size.
- D. It allows precise antigen production. ✓

Q81 Professional Ability

Which term describes substances that can both donate and accept a proton in acid-base titrations?

- A. Amphotropic substances ✓
- B. Protogenic substances
- C. Protophilic substances
- D. Aprotic substances

Q82 Professional Ability

What is the main physiological consequence of an acute myocardial infarction?

- A. Enhanced oxygen delivery
- B. Increased cardiac output
- C. Decreased contractility of heart muscle ✓
- D. Improved electrical conduction

Q83 Professional Ability

What type of mixtures can be effectively separated using a super centrifuge?

- A. Single-phase liquid systems
- B. Homogeneous gaseous mixtures
- C. Dry powders with different particle sizes
- D. Liquid suspensions containing very fine solid particles ✓

Q84 Professional Ability

Which type of dietary fibre is primarily responsible for bulking stool and facilitating the quick passage of waste through the elementary canal?

- A. Water-insoluble fibre ✓
- B. Dietary fat
- C. Soluble fibre
- D. Simple carbohydrates

Q85 Professional Ability

A manufacturer observes phase separation in an oil-in-water emulsion stored at room temperature. Which formulation adjustment should be considered to address this disadvantage?

- A. Optimizing the concentration of emulsifying agents ✓
- B. Omitting flavoring agents
- C. Reducing the use of preservatives
- D. Decreasing the drug particle size



Q86 Professional Ability

A pharmacy wants to attract more customers by putting up posters that claim their products work faster than any other and guarantee a cure for specific illnesses. According to the Code of Pharmaceutical Ethics, what is the main ethical issue with this advertising approach?

- A. It fails to mention product prices
- B. It contains misleading and exaggerated claims, and uses the word 'Cure' ✓
- C. It only advertises prescription medicines
- D. It provides too much technical information

Q87 Professional Ability

How does studying consumer behaviour assist drug stores in managing their business?

- A. By ignoring market trends
- B. By helping to judge demands and calculate expenditure ✓
- C. By increasing advertising costs
- D. By focusing only on wholesale buyers

Q88 Professional Ability

Which statement best explains why oligomycin inhibits ATP synthesis in mitochondria?

- A. It binds to ATP synthase and blocks proton channels, preventing proton re-entry into the matrix ✓
- B. It inhibits the adenine nucleotide carrier, preventing ADP supply
- C. It reacts with reduced cytochrome to inhibit oxygen binding
- D. It binds to cytochrome oxidase and blocks electron transfer

Q89 Professional Ability

A pharmacist is trying to explain how a drug works in the body. Which branch of pharmacology is most relevant to this explanation?

- A. Pharmacodynamics ✓
- B. Pharmaceutics
- C. Biochemistry
- D. Anatomy

Q90 Professional Ability

Under ICH guidelines, clinical efficacy evaluation must include which of the following?

- A. Only animal study results
- B. Labeling information
- C. Results from stability testing only
- D. Evidence from well-designed human trials ✓

Q91 Professional Ability

What is the most common cause of acute myocardial infarction?

- A. Viral infection
- B. Bacterial infection
- C. Atherosclerosis ✓
- D. Hypertension

Q92 Professional Ability

Ticagrelor differs from clopidogrel by which mechanism of action?

- A. Ticagrelor increases cAMP, clopidogrel decreases cAMP
- B. Ticagrelor is a reversible P2Y₁₂ inhibitor, while clopidogrel is irreversible ✓
- C. Ticagrelor is a glycoprotein IIb/IIIa antagonist, clopidogrel is not
- D. Ticagrelor inhibits COX-1, clopidogrel inhibits COX-2

Q93 Professional Ability

If a controlled drug delivery system is designed without considering the uniformity of absorption, what is the most likely negative outcome?

- A. Better taste masking
- B. Inconsistent drug levels in the body ✓
- C. Improved packaging
- D. Enhanced color stability

Q94 Professional Ability

According to international guidelines, which qualification phase would you focus on when you want to ensure that equipment performs consistently within defined limits during actual process runs?

- A. Performance Qualification ✓
- B. Operational Qualification
- C. Design Qualification
- D. Installation Qualification



Q95 Professional Ability

Which of the following factors does NOT affect acid strength?

- A. Bond strength between hydrogen and the rest of the molecule
- B. Concentration of acid ☒
- C. Electronegativity of the central atom
- D. Resonance stabilization

Q96 Professional Ability

A pharmacist is using the British Pharmacopoeia to look up drugs. Based on the context, which classification is most likely being used?

- A. Botanical classification
- B. Therapeutic classification
- C. Pharmacodynamic classification
- D. Alphabetical classification ☒

Q97 Professional Ability

Which risk factor for myocardial infarction cannot be modified?

- A. Age ☒
- B. Poor oral hygiene
- C. Smoking
- D. Obesity

Q98 Professional Ability

In an acid-base catalyzed reaction, what is the main function of the acid or base?

- A. To increase the rate of the chemical reaction ☒
- B. To change the reaction product
- C. To stop the reaction
- D. To decrease the reaction temperature

Q99 Professional Ability

To ensure long-term stability of an emulsion, which combination of factors should be prioritized?

- A. Disperse phase concentration above 70%, storage at room temperature, minimal emulsifier
- B. Disperse phase concentration below 20%, warm storage, excess emulsifier
- C. Disperse phase concentration of 55%, storage in sunlight, reduced emulsifier
- D. Disperse phase concentration of 40%, storage in cool place, adequate emulsifying agent ☒

Q100 Professional Ability

What is the main process involved in the preparation of Asavas and Aristas?

- A. Fermentation ☒
- B. Distillation
- C. Sublimation
- D. Filtration



Questions

100 Questions • Answer Key

Q1 Questions

Seven boxes A, B, C, D, E, F and G are kept one over the other but not necessarily in the same order. C is kept second from the top. Only three boxes are kept between D and C. G is kept immediately below F but above E. B is not kept above E. How many boxes are kept between G and A?

- A. Four
- B. One
- C. Three
- D. Two



Q2 Questions

In a certain code language, $A + B$ means 'A is the sister of B', $A - B$ means 'A is the brother of B', $A \times B$ means 'A is the wife of B', $A \div B$ means 'A is the father of B'. Based on the above, how is T related to K if ' $T \div G + D - M \times K$ '?

- A. Brother
- B. Father
- C. Wife's brother
- D. Wife's father



Q3 Questions

A car of mass 1000 kg moves with a velocity of 20 m/s. The kinetic energy of the car is _____.

- A. 2×10^4 J
- B. 2×10^5 J
- C. 2×10^6 J
- D. 2×10^7 J



Q4 Questions

What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged? $20 + 12 \times 3 - 8 \div 4 = ?$

- A. 45
- B. 46
- C. 47
- D. 48



Q5 Questions

In a quadrilateral ABCD such that $AB = 0.3$ m, $BC = 0.4$ m and $\angle ABC = 90^\circ$, if $AD = DC = 0.4$ m and other angles are not right angles, then the area (in cm^2 , rounded off to the nearest integer) of quadrilateral ABCD is:

- A. 1318
- B. 1323
- C. 1380
- D. 1381



Q6 Questions

What is the usual relationship between pulse rate and temperature in a normal individual?

- A. Pulse rate decreases with temperature
- B. Pulse rate fluctuates randomly
- C. Pulse rate increases with temperature
- D. Pulse rate remains unchanged



Q7 Questions

What is the most appropriate initial management for a patient presenting with symptomatic bradyarrhythmia?

- A. Administration of atropine
- B. Immediate defibrillation
- C. Intravenous diuretics
- D. Oral anticoagulants



Q8 Questions

For a patient bitten by a snake, what is the rationale for keeping the limb at heart level?

- A. To help with breathing
- B. To prevent blood clotting
- C. To reduce spread of venom
- D. To speed up blood flow to the heart



Q9 Questions

What is the primary purpose of ECG recording during code blue in the ICU?

- A. To check the temperature
- B. To examine the eyesight
- C. To measure the blood pressure
- D. To monitor the heart rhythm ✓

Q10 Questions

A patient presents with muscle weakness, and the ECG shows flattened T waves and prominent U waves. Which electrolyte imbalance is most probable?

- A. Hypercalcemia
- B. Hyperkalemia
- C. Hypokalemia ✓
- D. Hyponatremia

Q11 Questions

After a stress test ECG, which finding would require immediate medical attention during the recovery phase?

- A. Mild fatigue
- B. Mild muscle soreness
- C. Persistent arrhythmias on ECG ✓
- D. Slight increase in blood pressure

Q12 Questions

Ventricular fibrillation waves on ECG are best described as:

- A. Disorganised ✓
- B. Regular
- C. Sawtooth pattern waves
- D. Straight line

Q13 Questions

A patient presents with chest pain and ST elevation in leads II, III, and aVF. According to the universal definition of MI, which coronary artery is most likely involved, and what is the ECG diagnosis?

- A. Left anterior descending artery; anterior STEMI
- B. Left circumflex artery; lateral STEMI
- C. Posterior descending artery; posterior STEMI
- D. Right coronary artery; inferior STEMI ✓

Q14 Questions

In the context of CVS monitoring, which finding in myxedema patients could be explained by their ECG pattern?

- A. Atrial flutter due to enhanced automaticity
- B. Bradycardia due to decreased metabolic rate ✓
- C. Tachycardia due to increased sympathetic tone
- D. Ventricular fibrillation due to electrolyte imbalance

Q15 Questions

What is a typical ECG finding in patients with cerebral infarct?

- A. Prolonged PR interval
- B. T wave inversion ✓
- C. Tall P waves
- D. U wave presence

Q16 Questions

What does the QT interval on a normal ECG primarily represent?

- A. Atrial contraction only
- B. Atrial depolarisation and repolarisation
- C. Ventricular contraction only
- D. Ventricular depolarisation and repolarisation ✓

Q17 Questions

In a patient with suspected angina, which ECG feature would prompt urgent evaluation for possible myocardial infarction rather than typical angina?

- A. Isolated T wave flattening
- B. Persistent ST elevation ✓
- C. Sinus tachycardia
- D. Transient ST depression

Q18 Questions

How many standard limb leads are used in a basic ECG procedure?

- A. 2
- B. 3 ✓
- C. 4
- D. 5



Q19 Questions

Which of the following best describes the path of a light ray as it enters and then exits a glass slab from air?

- A. Bends away from the normal, then towards the normal
- B. Bends towards the normal at both surfaces
- C. Bends towards the normal, then away from the normal ✓
- D. Does not bend at all but shifts sideways

Q20 Questions

According to Rutherford's model, where is most of the mass of an atom concentrated?

- A. Electron cloud
- B. Nucleus ✓
- C. Orbitals
- D. Proton shell

Q21 Questions

Which of the following best describes the relationship between autotrophs and heterotrophs?

- A. Autotrophs depend on heterotrophs for enzymes
- B. Both autotrophs and heterotrophs produce their own food
- C. Heterotrophs depend directly or indirectly on autotrophs for survival ✓
- D. Heterotrophs directly produce energy for autotrophs

Q22 Questions

A water purification plant uses a process to remove harmful ions. Which type of reaction would most likely be used for this purpose?

- A. Combustion reaction
- B. Decomposition reaction
- C. Double displacement reaction ✓
- D. Synthesis reaction

Q23 Questions

The average of the marks of 20 students is 72. Later, it was found that the marks of two students were wrongly entered as 48 and 56 instead of 84 and 65. Find the correct average.

- A. 71.25
- B. 74.25 ✓
- C. 77.25
- D. 79.25

Q24 Questions

The Department of Telecommunications (DoT) organised the 9th edition of India Mobile Congress (IMC 2025) in collaboration with which body?

- A. Cellular Operators Association of India (COAI) ✓
- B. Confederation of Indian Industry (CII)
- C. International Telecommunication Union (ITU)
- D. NASSCOM

Q25 Questions

In December 2025, Ethiopia conferred its highest national award on Prime Minister Narendra Modi. What was the award called?

- A. Great Honour Nishan ✓
- B. Order of Makarios III
- C. Order of Oman (First Class)
- D. Order of the Nile

Q26 Questions

Which of the following particles is essential for determining the isotope of an element?

- A. Electron
- B. Neutron ✓
- C. Positron
- D. Proton

Q27 Questions

During an acute myocardial infarction, which change in coronary circulation most directly impairs myocardial function?

- A. Decreased oxygen supply ✓
- B. Increased arterial pressure
- C. Increased preload
- D. Increased venous return

Q28 Questions

In a patient with a normal temperature and pulse but low blood pressure, which clinical condition should be considered first?

- A. Arrhythmia
- B. Febrile illness
- C. Hypertension
- D. Hypovolemia ✓



Q29 Questions

What is the term for moving a patient from a bed to a wheelchair safely?

A. Transfer



B. Transformation

C. Transfusion

D. Translation

Q30 Questions

Which segment is primarily analyzed to diagnose an ST-elevation myocardial infarction (STEMI)?

A. P wave

B. PR interval

C. ST segment



D. T wave

Q31 Questions

What ECG change might be seen after administration of calcium channel blockers?

A. Bradycardia



B. QRS widening

C. Sinus tachycardia

D. Ventricular fibrillation

Q32 Questions

Which of the following is most likely to trigger a premature ventricular contraction?

A. Electrolyte imbalance



B. Increased vagal tone

C. Normal conduction pathway

D. Slow heart rate

Q33 Questions

During ECG monitoring, which drug is most likely to cause bradycardia?

A. Atropine

B. Dobutamine

C. Epinephrine

D. Propranolol



Q34 Questions

Which combination of symptoms and ECG findings is most indicative of myocardial infarction?

A. Chest pain with ST elevation



B. Dizziness with prolonged PR interval

C. Fatigue with sinus bradycardia

D. Palpitations with normal ECG

Q35 Questions

What is the best way to prevent electrode contact artifacts when performing an ECG?

A. Applying conductive gel to the skin



B. Placing electrodes over thick clothing

C. Using dry electrodes

D. Using worn-out electrodes

Q36 Questions

Which ECG change is most commonly associated with myocardial ischemia?

A. Prolonged QT interval

B. ST segment depression



C. Tall T waves

D. U waves

Q37 Questions

Which component of the ECG lead system is responsible for detecting electrical impulses from the heart?

A. Battery

B. Display screen

C. Electrode



D. Monitor

Q38 Questions

What is the standard voltage calibration setting for an ECG machine to ensure accurate readings?

A. 10 mm/mV



B. 15 mm/mV

C. 20 mm/mV

D. 5 mm/mV



Q39 Questions

During ECG machine calibration, what is the standard voltage signal used to check the sensitivity?

- A. 1 millivolt ✓
- B. 10 millivolts
- C. 2 millivolts
- D. 5 millivolts

Q40 Questions

What is the main purpose of the Einthoven triangle in electrophysiology?

- A. To calculate heart rate
- B. To locate the electrical axis of the heart ✓
- C. To measure blood pressure
- D. To visualize heart chambers

Q41 Questions

Which type of ECG lead requires a reference electrode placed at a distant site from the recording electrode?

- A. Bipolar lead
- B. Tetrapolar lead
- C. Tripolar lead
- D. Unipolar lead ✓

Q42 Questions

What is the significance of a prolonged PR interval?

- A. Atrial fibrillation
- B. First degree heart block ✓
- C. Normal conduction
- D. Ventricular hypertrophy

Q43 Questions

What is the primary purpose of a stress test in cardiac care?

- A. To assess kidney performance
- B. To check lung capacity
- C. To evaluate heart function under stress ✓
- D. To measure blood sugar levels

Q44 Questions

Which type of stress test involves the use of medication instead of physical exercise?

- A. Echocardiogram
- B. Exercise stress test
- C. Holter monitoring
- D. Pharmacological stress test ✓

Q45 Questions

During a treadmill stress test, what action should be taken if a patient reports chest pain?

- A. Ignore the complaint
- B. Increase the speed
- C. Lower the incline
- D. Stop the test immediately ✓

Q46 Questions

In cricket, which of the following terms is used when a bowler dismisses three batsmen with consecutive deliveries?

- A. Century
- B. Duck
- C. Hat-trick ✓
- D. Overthrow

Q47 Questions

Which state among the following sets a world record by installing over 45,000 solar agricultural pumps in a month, enhancing irrigation and farmer income?

- A. Madhya Pradesh
- B. Maharashtra ✓
- C. Punjab
- D. Telangana

Q48 Questions

Which body had the final authority to approve India's Five-Year Plans?

- A. Cabinet Committee on Economic Affairs
- B. Economic Advisory Council
- C. Finance Commission
- D. National Development Council ✓



Q49 Questions

The provision related to the constitution of the Central Information Commission (CIC) in the RTI Act, 2005 is contained in which of the following sections?

A. Section 12



B. Section 15

C. Section 4

D. Section 5

Q50 Questions

Who among the following led the Santhal Revolt against British rule and zamindari oppression?

A. Birsa Munda

B. Chapekar Brothers

C. Murmu Brothers



D. Tantia Bhil

Q51 Questions

Which component of the ECG is most useful in detecting atrial enlargement?

A. P wave



B. QRS complex

C. ST segment

D. T wave

Q52 Questions

The primary function of the cardiovascular system is to:

A. Control body temperature only

B. Generate nerve impulses

C. Produce hormones

D. Transport oxygen and nutrients to tissues



Q53 Questions

Gas exchange in the lungs occurs at the level of the:

A. Alveoli



B. Bronchi

C. Bronchioles

D. Trachea

Q54 Questions

Which ECG change is most characteristic of an acute myocardial infarction?

A. Flattened P waves in multiple leads

B. Narrow QRS complex with normal rhythm

C. Shortened PR interval with normal QRS

D. ST segment elevation in affected leads



Q55 Questions

ST elevation in leads V1 to V4 most commonly indicates infarction of which wall of the heart?

A. Anterior wall



B. Inferior wall

C. Lateral wall

D. Posterior wall

Q56 Questions

ECG changes in leads II, III, and aVF are characteristic of infarction involving which myocardial wall?

A. Anterior wall

B. Inferior wall



C. Lateral wall

D. Septal wall

Q57 Questions

Which ECG feature is most suggestive of a premature atrial contraction?

A. Absent T wave with ST segment change

B. Early P wave with normal QRS complex



C. Prolonged PR interval with normal QRS complex

D. Wide QRS complex without P wave

Q58 Questions

Tall, peaked P waves on ECG are most commonly associated with:

A. Inferior wall MI

B. Left atrial enlargement

C. Left ventricular hypertrophy

D. Right atrial enlargement



Q59 Questions

ECG is most useful in the diagnosis of which cardiac condition?

A. Cardiac arrhythmias



B. Heart murmur

C. Pericardial effusion

D. Valvular thickness

Q60 Questions

Which ECG change is most commonly seen during an episode of angina pectoris?

A. Prolonged PR interval

B. ST segment depression



C. ST segment elevation

D. Wide QRS complex

Q61 Questions

Who is considered the father of electrocardiography?

A. Claude Bernard

B. Willem Einthoven



C. William Edith

D. William Harvey

Q62 Questions

The ECG machine mainly works on the principle of:

A. Conversion of heat energy into electrical signals

B. Conversion of light energy into electrical signals

C. Conversion of magnetic fields into electrical signals

D. Detection and amplification of bioelectric potentials



Q63 Questions

Left ventricular hypertrophy on ECG is commonly indicated by:

A. Flattened T waves

B. Low voltage QRS complexes

C. Short QT interval

D. Tall R waves in left chest leads



Q64 Questions

A patient has an ECG showing a regular series of P waves followed by QRS complexes. Occasionally, a QRS complex is missing. What should be assessed first when analyzing this ECG?

A. Heart rate and rhythm



B. QRS voltage

C. ST segment

D. T wave morphology

Q65 Questions

In standard ECG calibration, 1 mV of electrical signal is represented by:

A. 10 mm



B. 15 mm

C. 20 mm

D. 5 mm

Q66 Questions

How many standard limb leads are used in routine ECG recording?

A. Six

B. Three



C. Twelve

D. Two

Q67 Questions

After removal of a Holter monitor, the most important next step is to:

A. Allow the patient to bathe immediately

B. Analyze and interpret the recorded ECG data



C. Discard the recording electrodes

D. Reapply the monitor

Q68 Questions

Which device is used for long-term intermittent ECG recording activated by the patient?

A. Cardiac monitor

B. Defibrillator

C. Event recorder



D. Stress test system



Q69 Questions

Which statement best distinguishes primitive subsistence farming from commercial farming in India?

- A. Commercial farming avoids the use of modern technology
- B. Commercial farming relies mainly on monsoon rainfall
- C. Primitive farming emphasises family consumption needs ✓
- D. Primitive farming focuses on market-oriented surplus production

Q70 Questions

If a bulb is designed to work at 12 volts and 0.5 amperes, what should be the resistance of the filament according to Ohm's Law?

- A. 0.041 ohms
- B. 24 ohms ✓
- C. 6.5 ohms
- D. 6 ohms

Q71 Questions

If the frequency of a sound wave is 10 Hz, its time period is:

- A. 0.01 s
- B. 0.1 s ✓
- C. 1 s
- D. 10 s

Q72 Questions

Match the heart chamber with the type of blood it handles: (A) Right atrium (B) Left ventricle (C) Left atrium (D) Right ventricle

- A. A-De-oxygenated, B-De-oxygenated, C-Oxygen-rich, D-Oxygen-rich
- B. A-De-oxygenated, B-Oxygen-rich, C-Oxygen-rich, D-De-oxygenated ✓
- C. A-Oxygen-rich, B-De-oxygenated, C-De-oxygenated, D-Oxygen-rich
- D. A-Oxygen-rich, B-Oxygen-rich, C-De-oxygenated, D-De-oxygenated

Q73 Questions

If a mammal species evolved without the ability for the penis to become erect, what direct impact might this have on sexual reproduction?

- A. It would make breastfeeding impossible
- B. It would prevent the transfer of sperms ✓
- C. It would shorten the time the baby spends in the mother's body
- D. It would speed up the maturation of female organs

Q74 Questions

Which principle of hospital practice directly minimizes cross-contamination when the same healthcare worker attends multiple patients sequentially?

- A. Routine antibiotic prophylaxis for admitted patients
- B. Selective use of personal protective equipment only for isolation cases
- C. Standard precautions applied uniformly irrespective of diagnosis ✓
- D. Terminal cleaning performed at end of duty hours

Q75 Questions

Which ECG feature most accurately identifies Mobitz Type II second-degree AV block?

- A. Complete atrioventricular dissociation
- B. Progressive PR interval lengthening before dropped beat
- C. Shortened PR interval
- D. Sudden dropped QRS complexes without prior PR prolongation ✓

Q76 Questions

Tall tented T waves in hyperkalemia occur primarily due to:

- A. Acceleration of ventricular repolarization ✓
- B. Delayed atrial depolarization
- C. Prolongation of ventricular depolarization
- D. Suppression of sinoatrial node

Q77 Questions

Which ECG change most reliably indicates quinidine toxicity?

- A. Peaked T waves
- B. Prolonged QT interval ✓
- C. Scooped ST depression
- D. Shortened PR interval



Q78 Questions

In an asymptomatic endurance athlete, sinus bradycardia persists even during mild exertion. Which mechanism best explains this finding without indicating pathology?

- A. AV nodal conduction delay
- B. Enhanced ventricular automaticity
- C. Increased vagal suppression of SA node firing
- D. Prolonged ventricular refractoriness

Q79 Questions

During continuous ECG monitoring following subarachnoid hemorrhage, transient deep T-wave inversions are most accurately explained by which underlying mechanism?

- A. Direct electrolyte loss affecting ventricular action potential
- B. Intrinsic conduction system degeneration
- C. Primary ischemia of coronary microvasculature
- D. Sympathetic overdrive causing myocardial repolarization injury

Q80 Questions

During high-dose vasopressor therapy, which ECG change most reliably indicates supply-demand ischemia due to increased afterload?

- A. PR interval shortening
- B. QT interval shortening
- C. ST segment depression
- D. Tall P waves

Q81 Questions

Which ECG change best differentiates left ventricular hypertrophy from simple increased cardiac workload without structural enlargement?

- A. Increased QRS voltage with secondary ST-T changes
- B. Isolated PR interval prolongation
- C. Mild axis deviation with normal QRS amplitude
- D. Uniform ST depression without voltage change

Q82 Questions

Which ECG finding most reliably indicates myocardial ischemia rather than established myocardial infarction?

- A. Deep Q waves in contiguous leads
- B. Fixed T wave inversion lasting several days
- C. Persistent ST elevation without loss of R waves
- D. Reversible ST segment deviation without pathological Q waves

Q83 Questions

The primary purpose of the differential amplifier in an ECG machine is to:

- A. Amplify true cardiac signals while rejecting common electrical noise
- B. Convert analog signals into digital format
- C. Increase overall signal amplitude for clearer waveforms
- D. Stabilize baseline drift during long recordings

Q84 Questions

Which maintenance practice most directly prevents signal attenuation and waveform distortion during ECG recording?

- A. Frequent adjustment of paper speed settings
- B. Periodic software updates alone
- C. Regular inspection and replacement of electrode cables
- D. Routine recalculation of heart rate

Q85 Questions

During ECG recording, which change most strongly suggests a therapeutic digitalis effect rather than myocardial ischemia?

- A. Down-sloping ST depression with preserved T-wave polarity
- B. Flattened ST segment with Q-wave formation
- C. Horizontal ST depression with symmetrical T-wave inversion
- D. ST elevation in contiguous precordial leads

Q86 Questions

Which clinical scenario most strongly justifies Holter monitoring rather than a routine resting ECG?

- A. Intermittent palpitations occurring unpredictably over several days
- B. Known bundle branch block without symptoms
- C. Persistent chest pain relieved by rest
- D. Stable sinus bradycardia on repeated ECGs

Q87 Questions

Which complication is most realistically associated with Holter monitoring?

- A. Electrolyte imbalance
- B. Induction of malignant arrhythmia
- C. Localized skin irritation at electrode sites
- D. Significant radiation exposure



Q88 Questions

Which frontal plane QRS axis range is considered normal in a healthy adult ECG?

- A. Between -180° and -90°
- B. Between -30° and $+90^{\circ}$ ✓
- C. Between $+90^{\circ}$ and $+180^{\circ}$
- D. Between -90° and -30°

Q89 Questions

Which description best represents a normal ST segment on ECG?

- A. Consistently depressed below baseline
- B. Isoelectric line continuous with the end of QRS complex ✓
- C. Markedly sloping upward before T wave
- D. Slightly elevated above baseline in all leads

Q90 Questions

Who headed the Committee of Ministers on the Augmentation of Financial Resources of Urban Local Bodies, formed in India in 1963?

- A. A.P. Jain
- B. John Matthai
- C. P.K. Wattal
- D. Rafiq Zakaria ✓

Q91 Questions

Sinus bradycardia is associated with:

- A. AF
- B. LBBB
- C. Respiratory sinus rhythm ✓
- D. RVH

Q92 Questions

Digitalis exerts its effect primarily on:

- A. Endocardial contraction
- B. Endocardial systole
- C. Myocardial depolarization ✓
- D. Myocardial repolarization

Q93 Questions

Which deposits occur in sands of valley floors and the base of hills?

- A. Alluvial Deposits ✓
- B. Iron ore Deposits
- C. Manganese Deposits
- D. Non-ferrous Deposits

Q94 Questions

Sachin deposited a sum of ₹38,975 at 20% rate of interest per annum, compounded annually. The total amount received by Sachin after 2 years is:

- A. ₹55,662
- B. ₹55,895
- C. ₹56,124 ✓
- D. ₹56,199

Q95 Questions

Based on the English alphabetical order, three of the following four letter cluster pairs are alike in a certain way and thus form a group. Which is the one that does not belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster) 8170

- A. AS:EZ ✓
- B. CM:GQ
- C. DH:HL
- D. PJ:TN

Q96 Questions

The position(s) of how many letters will remain unchanged if each letter in the word MATCHBOX is arranged in the English alphabetical order?

- A. None
- B. One ✓
- C. Three
- D. Two

Q97 Questions

Using the 300 method, how many large squares between two consecutive R waves corresponds to a heart rate of 75 bpm?

- A. 2 large square
- B. 3 large square
- C. 4 large square ✓
- D. 5 large square



Q98 Questions

During a stress test, which of the following symptoms is a contraindication to continue exercise?

A. Chest pain or severe shortness of breath



B. Increased heart rate

C. Mild fatigue

D. Sweating

Q99 Questions

1 min 45 sec

A. 1 min 45 sec

B. 2 min 5 sec

C. 1 min 30 sec



D. 1 min 28 sec

Q100 Questions

$$\frac{3}{10}$$

A. $\frac{3}{10}$



B. $\frac{10}{7}$

C. $\frac{2}{15}$

D. $\frac{4}{9}$



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Questions

99 Questions • Answer Key

Q1 Questions

Refer to the given number series and answer the question that follows (all numbers are single-digit numbers only). Counting to be done from left to right only. (Left) 7 5 2 5 3 6 9 8 2 4 1 7 5 2 8 9 6 3 9 8 7 1 4 5 2 6 3 9 8 7 5 1 2 3 6 9 8 4 (Right) How many such even digits are there which are immediately preceded by an even digit and immediately followed by an odd digit? 2766

A. 2

B. 3

C. 4

D. 5

Q2 Questions

Seven people, A, B, C, D, E, F and G, are sitting in a row, facing north. Only three people sit to the left of D. Only B sits to the right of F. Only three people sit between F and A. C sits at some place to the left of G, but at some place to the right of E. Who sits at the rightmost end? 3679

A. A

B. B

C. D

D. E

Q3 Questions

Select the pair that follows the same pattern as the one followed by the two pairs given below. Both pairs follow the same pattern. SRP-LKI KJH-DCA 4863

A. AYV-SRP

B. AYV-TSQ

C. AZX-SSP

D. AZX-TSQ

Q4 Questions

In a certain code language, A+ B means 'A is the son of B' A - B means 'A is the brother of B' A # B means 'A is the daughter of B' A % B means 'A is the mother of B' Based on the above, how is D related to K if 'D-R#T%K'?

A. Brother

B. Father

C. Husband

D. Son

Q5 Questions

How many Fundamental Duties were originally added to the Indian Constitution in 1976?

A. 10

B. 12

C. 8

D. 9

Q6 Questions

A fuse wire works on the principle of _____ .

A. Chemical effect of current

B. Heating effect of current

C. Induced current

D. Magnetic effect of current

Q7 Questions

The "Siachen Glacier," the world's highest battlefield, is located to the east of which mountain range?

A. Karakoram Range

B. Ladakh Range

C. Pir Panjal Range

D. Zaskar Range

Q8 Questions

In a typical brain MRI using the FLAIR sequence, which T1 value is most appropriate to suppress the CSF signal at 1.5 Tesla?

A. 120-150 ms

B. 1700-2200 ms

C. 200-250 ms

D. 3000-4000 ms

Q9 Questions

Which component of a CT scanner is responsible for converting X-ray photons into electrical signals?

A. Collimator

B. Detector

C. Gantry

D. Table



Q10 Questions

Which factor most directly increases the percentage depth dose in beam therapy?

- A. Decreased field size
- B. Higher beam energy ✓
- C. Lower patient thickness
- D. Shorter source-to-skin distance

Q11 Questions

Evaluate a scenario where a patient with facial asymmetry needs a mould for radiotherapy. What should the radiation team do to ensure effective treatment?

- A. Customize the mould to match the patient's unique facial structure. ✓
- B. Select a pre-fabricated mould closest in size.
- C. Skip the mould and proceed without it.
- D. Use a standard symmetrical mould.

Q12 Questions

Which of the following explains why woody perennial plants can survive for many years, unlike many animal tissues?

- A. Ability to generate impulses used for rapid internal communication
- B. Formation of storage tissues that accumulate reserve materials
- C. Presence of hemoglobin that helps in internal transport processes
- D. Presence of meristematic tissues that keep dividing throughout life ✓

Q13 Questions

A magnetic field produced through a solenoid is:

- A. Opposite in the direction at the centre
- B. Strong only at the ends
- C. Uniform inside the coil ✓
- D. Zero throughout the coil

Q14 Questions

Why is a high grid ratio (10:1–12:1) recommended in cranial radiography?

- A. Compton interactions cause thick bone to produce more scatter ✓
- B. Low kVp is used in skull radiography
- C. Low ratios result in underexposed images
- D. Significant quantum noise is produced by the skull

Q15 Questions

For a circular coil carrying a constant current, which of the following does NOT affect the magnitude of the magnetic field at its center?

- A. Direction of winding of the coil ✓
- B. Magnetic permeability of the core material
- C. Number of turns of the coil
- D. Radius of the coil

Q16 Questions

In mammography, which of the following increases the heel effect?

- A. Higher kVp
- B. Larger Anode angle
- C. Smaller Anode angle ✓
- D. Using Rh filter

Q17 Questions

What is the most effective method to reduce scatter during an ICU portable chest radiograph?

- A. Decreasing kVp
- B. Increasing kVp
- C. Increasing mAs
- D. Proper collimation to area of interest ✓

Q18 Questions

Which of the following methods is used to reduce Eddy current losses in a transformer core?

- A. Increasing frequency
- B. Increasing the voltage
- C. Laminating the core ✓
- D. Using thicker wire

Q19 Questions

You are creating a protocol to minimize the risk of contrast-induced nephropathy in cardiovascular patients undergoing CT scans. Which combination of actions is most effective?

- A. Use high-contrast dose and limit monitoring
- B. Use high-contrast dose and restrict fluids
- C. Use low-contrast dose and ensure adequate hydration ✓
- D. Use oral contrast only and increase diuretics



Q20 Questions

Which of the following is commonly found on an emergency cart in radiology?

- A. Contrast media
- B. Defibrillator
- C. Lead aprons
- D. X-ray film

Q21 Questions

Which component in a scintillation detector converts light flashes into electrical signals?

- A. Battery
- B. Oscilloscope
- C. Photomultiplier tube
- D. Resistor

Q22 Questions

Which of the following best describes the onset period of early radiation effects?

- A. Centuries
- B. Decades
- C. Minutes to weeks
- D. Years

Q23 Questions

A decubitus chest radiograph is particularly effective for differentiating between:

- A. Cardiomegaly and pericardial effusion
- B. Pulmonary consolidation and pleural effusion
- C. Pulmonary embolism and pneumonia
- D. Rib fracture and soft tissue injury

Q24 Questions

In a laboratory experiment, a student mixes hydrochloric acid and sodium hydroxide. What type of reaction occurs?

- A. Decomposition
- B. Neutralization
- C. Oxidation
- D. Precipitation

Q25 Questions

Which of the following is NOT typically a responsibility of the radiology technologist in special radiographic procedures?

- A. Implementing radiation protection measures
- B. Interpreting Images and making final diagnosis
- C. Positioning the patient
- D. Preparing and handling contrast media

Q26 Questions

In a manufacturing plant, engineers need a lightweight and non-conductive material. Which property of nonmetals would most benefit their selection?

- A. High density
- B. High luster
- C. Malleability
- D. Poor electrical conductivity

Q27 Questions

At the 56th International Film Festival of India (IFFI) in November 2025, a special commemorative postal stamp was released to honor the birth centenary of which legendary Goan cinematographer?

- A. Baba Naik
- B. Kiran Deohans
- C. Subrata Mitra
- D. Vaikunth Kunkolienkar

Q28 Questions

When visualizing the entire maxillary sinus, including its floor and anterior wall, which PNS projection is the best?

- A. Caldwell view
- B. Lateral view
- C. Submentovertex view (SMV)
- D. Waters view

Q29 Questions

For the PA mandible projection, what adjustment minimizes superimposition of the cervical spine over the mandible?

- A. Extending the neck
- B. Flexing the neck
- C. Rotating the head
- D. Tilting the chin downward



Q30 Questions

A hollow cylindrical pipe has an external diameter of 16 cm and an internal diameter of 12 cm. If the length of the pipe is 35 cm, find the total surface area of the pipe. [Use $\pi = 22/7$]

A. 3,256 cm²



B. 3,268 cm²

C. 3,284 cm²

D. 3,292 cm²

Q31 Questions

On 25 August 2025, the Ministry of Science & Technology launched its first National Biofoundry Network along with a youth-oriented challenge. What is the name of that challenge?

A. BioE3 Challenge for Youth



B. BioFoundry Youth Quest

C. BioStart Challenge

D. BioYouth Challenge

Q32 Questions

In which state of matter does applying pressure have the least effect on volume?

A. Gas

B. Liquid



C. Plasma

D. Solid

Q33 Questions

How does daylight film handling improve workflow in computerized radiography?

A. By allowing film loading and unloading in normal lighting



B. By automating image analysis

C. By eliminating the need for staff training

D. By increasing patient throughput

Q34 Questions

When using a darkroom drier, what safety precaution should be taken to avoid damaging prints?

A. Adjust temperature appropriately



B. Overlap prints

C. Use excessive heat

D. Use wet prints

Q35 Questions

The minimum number of silver atoms required to form a stable latent image center is determined mainly by:

A. Developer composition

B. Grain size of silver halide

C. Processing temperature

D. Thermodynamic stability of the sensitivity speck



Q36 Questions

Which urban local body is meant for transitional or semi-urban areas?

A. Municipal Corporation

B. Municipal Council

C. Nagar Panchayat



D. Notified Area Committee

Q37 Questions

If a team wins the Bighton Cup, which of the following sports have they competed in?

A. Cricket

B. Hockey



C. Kabaddi

D. Volleyball

Q38 Questions

During a lateral projection of the calcaneum, which anatomical landmark should be aligned perpendicular to the image receptor for optimal visualization?

A. Base of the fifth metatarsal

B. Long axis of the calcaneum



C. Medial cuneiform

D. Plantar surface of the foot

Q39 Questions

In an unconscious patient with trauma to the left upper posterior ribs, which basic radiographic projection (other than the axillary view) best demonstrates the injured area?

A. AP projection



B. AP projection with the patient in Trendelenburg position

C. Expiratory PA chest projection

D. PA oblique - Erect



Q40 Questions

The Scotty dog sign seen on an oblique projection of the lumbar spine is used to best demonstrate which anatomical structure?

- A. Intervertebral disc spaces - T8 to L2
- B. Pars interarticularis ✓
- C. Spinous processes
- D. Transverse processes

Q41 Questions

What is formed on the radiographic film immediately after exposure to X-rays but before processing?

- A. Developed image
- B. Latent image ✓
- C. Permanent image
- D. Visible image

Q42 Questions

When storing film hangers in a radiography dark room, which method helps prevent contamination and prolong the hangers' life?

- A. Hanging them on a dedicated rack ✓
- B. Keeping them in developer solution
- C. Leaving them wet on the sink
- D. Storing them on the floor

Q43 Questions

For which type of radiation is an Optically Stimulated Luminescence Dosimeter most sensitive?

- A. Alpha particles
- B. Gamma rays and X-rays ✓
- C. Heavy ions
- D. Thermal neutrons only

Q44 Questions

What is the primary purpose of central venography?

- A. To assess arterial circulation
- B. To diagnose bone fractures
- C. To measure blood pressure
- D. To visualize central veins ✓

Q45 Questions

The Chalukya Utsava was revived in December 2025 in which of the following historic regions?

- A. Ajanta
- B. Badami ✓
- C. Ellora
- D. Hampi

Q46 Questions

In a partnership, investment of A is 1.5 times of investment of B and investment of B is 3.5 times of investment of C. If all three partners have invested for equal time period, find the ratio of their shares in the profit.

- A. 21: 10 : 4
- B. 21 : 14 : 3
- C. 21 : 14 : 4 ✓
- D. 21 : 7 : 4

Q47 Questions

In the context of the Santhal Rebellion (1855-57), the area of concentration of Santhals was called _____.

- A. Bhagalpur Tract
- B. Daman-i-Koh ✓
- C. Garo Hills
- D. Qaba-ilil- wadiyan

Q48 Questions

When positioning a patient for a supine abdominal radiograph, which anatomical landmark should be centered to the midline of the image receptor?

- A. Iliac crests ✓
- B. Pubic symphysis
- C. Umbilicus
- D. Xiphoid process

Q49 Questions

For an apical lordotic chest projection to visualize lung apices, which Postero-Anterior projection position is best demonstrated?

- A. Patient erect/seating with chin raised and shoulders rolled forward ✓
- B. Patient prone with head turned to one side
- C. Patient standing with AP positioning and arms by the sides
- D. Patient supine with knees bent



Q50 Questions

When performing a CT-guided FNAC on a deeply located lung lesion adjacent to major vessels, which strategy best demonstrates expert-level planning for needle trajectory?

- A. Approaching through fissures to minimize lung tissue traversal
- B. Choosing the shortest route regardless of the vessel structures crossed
- C. Selecting a pathway that avoids traversing vascular structures ✓
- D. Targeting the necrotic center of the lesion for easier aspiration

Q51 Questions

What does FLAIR stand for in MRI imaging?

- A. Fast Attenuated Inversion Recovery
- B. Fluid Assisted Inverse Radiology
- C. Fluid Attenuated Inversion Recovery ✓
- D. Frequency Augmented Imaging Response

Q52 Questions

Which physical property does ultrasound primarily rely on to generate images?

- A. Light waves
- B. Magnetic fields
- C. Sound waves ✓
- D. X-rays

Q53 Questions

Which ultrasound transducer is MOST appropriate for optimal visualization and assessment of the abdominal aorta?

- A. Curvilinear low-frequency transducer ✓
- B. Endocavitary transducer
- C. Linear high-frequency transducer
- D. Phased array transducer

Q54 Questions

Which property of MRI contrast agents is most influenced by dipole-dipole interactions at the molecular level?

- A. Their ability to alter relaxation times of nearby water protons ✓
- B. Their ability to reflect ultrasound waves
- C. Their capacity to absorb X-rays efficiently
- D. Their effect on the scanner's magnetic field strength

Q55 Questions

If the scan delay is too long after contrast injection in a cerebral CT angiogram, what is the likely consequence?

- A. Arteries will be adequately opacified
- B. Bone artifact will obscure vessels
- C. Image noise will increase significantly
- D. Venous structures will be more prominent than arteries ✓

Q56 Questions

Which image post-processing technique is primarily used to generate 3D reconstructions from CT datasets?

- A. Maximum intensity projection
- B. Noise reduction
- C. Volume rendering ✓
- D. Windowing

Q57 Questions

A patient requires continuous vital sign monitoring during an MRI scan. Which device should be selected to prevent safety hazards?

- A. An MRI-compatible device ✓
- B. Conventional pulse oximeter
- C. Regular ECG leads
- D. Standard hospital monitor

Q58 Questions

During routine mammographic imaging, which two standard views are most commonly utilized together to ensure thorough visualization of all breast regions, including both central and peripheral tissue?

- A. Craniocaudal (CC) and lateromedial (LM) views
- B. Craniocaudal (CC) and mediolateral oblique (MLO) views ✓
- C. Lateromedial (LM) and mediolateral (ML) views
- D. Mediolateral (ML) and tangential views



Q59 Questions

Which statement best describes the distribution of X-ray intensity across the anode-cathode axis due to the heel effect?

- A. X-ray intensity is greater on the anode side and decreases toward the cathode side.
- B. X-ray intensity is greater on the cathode side and decreases toward the anode side. ✓
- C. X-ray intensity is unaffected by the anode-cathode orientation.
- D. X-ray intensity is uniform across both anode and cathode sides.

Q60 Questions

In the context of indirect fluoroscopy, which parameter is primarily adjusted by the automatic brightness control system to maintain image quality when patient thickness increases?

- A. Exposure time
- B. Grid ratio
- C. Input phosphor sensitivity
- D. Tube current (mA) ✓

Q61 Questions

Which of the following best describes a portable X-ray unit?

- A. It can be easily moved to a patient's location. ✓
- B. It is permanently installed in one room.
- C. It is used only for dental X-rays.
- D. It requires a dedicated imaging suite.

Q62 Questions

What role do the bearings at each end of the anode axle play in metal ceramic X-ray tubes?

- A. They decrease tube life.
- B. They increase electrical insulation.
- C. They provide greater stability and reduce stress on the shaft. ✓
- D. They support high-voltage cables.

Q63 Questions

When designing a high-tension cable for an X-ray generator, which insulation property is most critical for maintaining performance over time?

- A. High dielectric strength ✓
- B. High tensile strength
- C. Low cost
- D. Low thermal conductivity

Q64 Questions

A QA supervisor finds that the half-value layer (HVL) of a conventional radiographic unit is below the recommended standard during annual testing. What is the most significant clinical consequence if this issue is not promptly corrected?

- A. Images become noticeably sharper due to enhanced contrast.
- B. Patients are exposed to higher levels of low-energy radiation, increasing tissue dose without diagnostic benefit. ✓
- C. Radiographic equipment malfunctions more frequently.
- D. There is less need for using additional protective shielding.

Q65 Questions

During the process of radiolysis, which species is most likely to react with another water molecule to produce a hydronium ion (H_3O^+)?

- A. Hydrogen atom (H)
- B. Hydrogen peroxide (H_2O_2)
- C. Hydroxyl radical (OH)
- D. Water radical cations (H_2O^+) ✓

Q66 Questions

Which recent advancement in cardiac CT technology primarily helps to reduce motion artifacts during coronary imaging?

- A. Beam-hardening correction algorithms
- B. Calcium scoring
- C. Iterative reconstruction
- D. SnapShot Freeze ✓



Q67 Questions

Which area in a CT room is specifically designated to protect staff from radiation during scanning procedures?

A. Control console area ✓

B. Equipment storage area

C. Patient waiting area

D. Technical room

Q68 Questions

Which action most directly ensures that radiation protection equipment is safe and ready for use during radiographic apparatus preparation?

A. Adjusting the table height for patient comfort

B. Checking lead aprons for cleanliness and integrity ✓

C. Confirming the availability of positioning

D. Selecting the appropriate size of image receptor

Q69 Questions

A radiographer is asked to perform a mobile abdominal X-ray for a confused elderly patient in the ward. Which approach best balances patient safety and image quality in this scenario?

A. Apply physical restraints without additional support

B. Attempt to perform the X-ray alone without assistance

C. Delay the X-ray until the patient is less confused

D. Involve a nurse to help reassure and gently immobilize the patient during exposure ✓

Q70 Questions

A patient presents after blunt orbital trauma. The radiologist requests a projection that best demonstrates the orbital floors and infraorbital rim for suspected blowout fracture. Which projection should the technologist select to optimally visualize these structures?

A. Caldwell (PA Axial) projection

B. Lateral projection

C. Modified Waters (Parietoacanthial) projection ✓

D. Submentovertex (SMV) projection

Q71 Questions

Which MRI contrast agent is most likely to induce significant magnetic susceptibility artifacts in tissues?

A. Gadolinium-based agents

B. Manganese chelates

C. Perfluorocarbon emulsions

D. Superparamagnetic iron oxides ✓

Q72 Questions

A Doppler ultrasound examination shows an aliasing artifact when measuring high velocities in a vessel. Which adjustment will most effectively minimize this artifact without losing diagnostic information?

A. Decrease the angle of insonation

B. Increase the Pulse Repetition Frequency ✓

C. Set the colour scale to minimum velocity

D. Use a lower frequency transducer

Q73 Questions

Which patient preparation step is most critical to optimize visualization of the distended gallbladder during an abdominal ultrasound scan?

A. Administering a fatty meal before the scan

B. Drinking water just before the scan

C. Fasting for at least 6 hours prior to the scan ✓

D. Having a full bladder during the scan

Q74 Questions

Which transducer frequency range is most appropriate for high-resolution sonographic assessment of superficial musculoskeletal tendons in the extremities?

A. 12–17 MHz linear array ✓

B. 3.5 MHz curvilinear probe

C. 5–7 MHz linear array

D. 7.5 MHz convex probe



Q75 Questions

Which of the following best describes the patient's position for a lateral sacrum radiograph?

- A. Patient lying on either side with knees and hips slightly flexed and iliac crests at right-angles to the image receptor** ✓
- B. Patient lying prone with arms by the side and legs extended and iliac crests at parallel to the image receptor
- C. Patient lying supine with legs straight and arms at sides
- D. Patient sitting upright with arms folded and legs extended with iliac crests at right-angles to the image receptor

Q76 Questions

During processing of intraoral films, the films were transferred directly from the developer to the fixer, resulting in uneven images with residual developer stains. Which processing step was omitted in the film processing sequence?

- A. Drying, which prepares the film for viewing
- B. Fixing, which hardens the emulsion and halts development
- C. Rinsing, which removes excess developer and prevents chemical carryover** ✓
- D. Washing, which removes all processing chemicals after fixing

Q77 Questions

In an intensifying screen used in radiography, which layer is responsible for producing visible light when struck by X-rays?

- A. Base layer
- B. Phosphor layer** ✓
- C. Protective coat
- D. Reflective layer

Q78 Questions

The radiographer must select the most suitable film-screen combination, given the need to reduce patient exposure without sacrificing image detail. Which factor is most critical in matching the film to the intensifying screen?

- A. Ensuring the presence of antihalation dyes in the film
- B. Selecting the highest-speed film regardless of screen type
- C. Spectral matching between the screen and film** ✓
- D. Using the highest-contrast film available

Q79 Questions

Crop rotation helps in controlling _____ by changing the type of crops grown in a pre-planned succession.

- A. excess rainfall
- B. over-irrigation
- C. sunlight exposure
- D. weeds and pests** ✓

Q80 Questions

If a plant is kept in an environment without sunlight but provided with carbon dioxide and water, what would happen to its starch reserves over time?

- A. They would decrease as the plant uses stored energy** ✓
- B. They would increase due to excess water
- C. They would rapidly convert into glycogen
- D. They would remain unchanged

Q81 Questions

During CT multiplanar reconstruction, the slice thickness is 5 mm. The software generates sagittal and coronal planes by estimating intermediate pixel values. Which Image processing technique is used?

- A. Edge detection
- B. Fourier reconstruction
- C. Interpolation** ✓
- D. Thresholding

Q82 Questions

A superficial tumor at 2 cm depth is treated using 6 MV photons and 9 MeV electrons. Which beam provides a higher percent depth dose (PDD) at 2 cm?

- A. 6 MV photons
- B. 9 MeV electrons** ✓
- C. Both deliver the same dose
- D. Cannot be determined without SSD



Q83 Questions

Which of the following best describes the physical meaning of capacitance for a given capacitor?

- A. It is the capacitor's energy storage capacity per unit charge.
- B. It is the maximum current the capacitor can safely carry without damage.
- C. It is the ratio between the charge and its potential. ✓
- D. It is the total number of electrons on the negatively charged plate.

Q84 Questions

Which of the following parameters does the Automatic Brightness Control (ABC) system primarily adjust in indirect fluoroscopy to maintain a constant image brightness?

- A. Collimator size and exposure time
- B. Frame rate and detector gain
- C. kVp and mA based on image intensifier output ✓
- D. Source-to-image distance and patient thickness

Q85 Questions

A chest X-ray is performed on a patient. At low energy levels, which material absorbs X-ray photons the most effectively?

- A. Air ($Z \approx 7.6$)
- B. Bone ($Z \approx 13.8$) ✓
- C. Soft tissue ($Z \approx 7.4$)
- D. Water ($Z \approx 7.4$)

Q86 Questions

In a hospital corridor, an alone radiographer finds an adult patient who is unresponsive and has no pulse. According to the AHA's "Chain of Survival," which of the following represents the correct sequence?

- A. Activate emergency response → Compressions → AED ✓
- B. AED → Compressions → Call EMS
- C. Compressions → Activate emergency response → AED
- D. Rescue breaths → Compressions → Call EMS

Q87 Questions

The energy resolution of a semiconductor detector is higher than that of a scintillation detector. Why is the energy resolution of scintillation detectors limited?

- A. Crystal thickness
- B. High noise in PMT
- C. Radiation scatter
- D. Statistical variation in light production ✓

Q88 Questions

Central venography is performed via an upper-limb approach on a patient with suspected superior vena cava (SVC) obstruction. To opacify the SVC, which vein is MOST commonly cannulated?

- A. Antecubital vein ✓
- B. Basilic vein
- C. Cephalic vein
- D. Radial vein

Q89 Questions

A patient undergoing contrast-enhanced CT develops minimal warmth and nausea during injection. The contrast used was non-ionic. Why are such reactions generally milder than ionic contrast reactions?

- A. Non-ionic agents absorb more X-rays
- B. Non-ionic agents are radiolucent
- C. Non-ionic agents do not dissociate in solution ✓
- D. Non-ionic agents have higher viscosity

Q90 Questions

After processing, a radiographer observes that the film curls considerably despite correct chemistry and exposure. Which film component MOST directly maintains dimensional stability to prevent this?

- A. Adhesive subbing layer
- B. Emulsion layer
- C. Film base ✓
- D. Protective overcoat



Q91 Questions

Following X-ray exposure, electrons are released within the silver bromide crystal and trapped at specific locations. Where is the latent image primarily formed?

- A. Emulsion surface
- B. Film base
- C. Gelatin matrix
- D. Sensitivity specks on silver halide crystals ✓

Q92 Questions

Under COSHH guidelines, which of the following is a key safety measure for handling chemicals in the radiology darkroom?

- A. Keeping chemicals in unlabelled bottles
- B. Mixing all chemicals in one open container
- C. Storing chemicals at high temperatures
- D. Using proper ventilation or exhaust systems ✓

Q93 Questions

When was the Pradhan Mantri Gram Sadak Yojana launched with the objective of providing rural connectivity?

- A. 2000 ✓
- B. 2001
- C. 2002
- D. 2004

Q94 Questions TELUGU

9, 6 మరియు 12 లచే భాగించినప్పుడు ప్రతి సందర్భంలో 5 ని శేషంగా ఇచ్చే అతిపెద్ద నాలుగు అంకెల సంఖ్య:

- A. 9642
- B. 9977 ✓
- C. 9991
- D. 9998

Q99 Questions

2.25 m/s

- A. 2.25 m/s
- B. 36.0 m/s ✓
- C. 18.0 m/s
- D. 45.0 m/s

Q95 Questions

The ratio of the cost price to the marked price of an article is 3 : 5. A discount of 25% is given on the marked price. If the shopkeeper makes a profit of ₹150, find the cost price (in ₹) of the article.

- A. 570
- B. 580
- C. 590
- D. 600 ✓

Q96 Questions

If 3 is added to each odd digit and 1 is subtracted from each even digit in the number 1256438, what will be the difference between the highest and lowest digits in the number thus formed?

- A. 4
- B. 5
- C. 6
- D. 7 ✓

Q97 Questions

In covering 90 km, R takes 4 hours more than S. If R triples his speed, then he would take 2 hours less than S. What is R's original speed (in km/h)? 7087

- A. 10 ✓
- B. 6
- C. 8
- D. 9

Q98 Questions

Approximately what percent of the area of India is occupied by plains?

- A. 27%
- B. 30%
- C. 43% ✓
- D. 50%

