



रेलवे भर्ती बोर्ड / RAILWAY RECRUITMENT BOARD
सी ई एन - ०४/२०२४ - CEN - 04/2024
Recruitment for Paramedical Categories



RRB PARAMEDICAL 2024

Pharmacist (Entry Grade)

Paramedical Categories | CEN 04/2024

ENGLISH ANSWER KEY

Official Answer Key

All 2 Shifts · 28 Apr 2025

Post	Pharmacist (Entry Grade)
Questions	100 per paper
Marking	+1 correct / -1/3 wrong
Duration	90 minutes
Sections	General Ability 30 · Professional Ability 70

Every paper is printed from the official question text with the correct answer marked.

HOW TO USE THIS BOOK

- 1 Open the INDEX on the next page.
- 2 Click any row to jump straight to that date and shift.
- 3 The correct option of every question is ticked in green.
- 4 Use the bookmarks panel of your PDF reader to move between shifts.

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Compiled 27 October 2026

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RRB Paramedical 2024 - Pharmacist (Entry Grade) (English) - 2 papers

PAPER	DATE	TIME	QUESTIONS	PAGE
Paper 1	28 Apr 2025	12:45 PM - 2:15 PM	100	3
Paper 2	28 Apr 2025	4:30 PM - 6:00 PM	100	20



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सी ई एन - ०४/२०२४ - CEN - 04/2024

Recruitment for Paramedical Categories



PAPER 1 of 2 · Pharmacist (Entry Grade) · English

Exam	RRB Paramedical 2024 (CEN 04/2024)
Post	Pharmacist (Entry Grade)
Test Date	28 Apr 2025
Test Time	12:45 PM - 2:15 PM
Language	English
Questions	100
Marking	+1 correct / -1/3 wrong

Correct option of the official answer key: **green with ✓**. Question IDs are RRB's own.

Section : General Ability

- Q.1** Find the circumference (in m) of the largest circle that can be inscribed in a rectangle whose dimensions are given as 49 m and 94 m.

$$\text{take } \pi = \frac{22}{7}$$

Ans

1. 154 ✓
2. 159
3. 149
4. 163

Question ID :
441009170078
Correct Option : 1

- Q.2** Who among the following was posthumously awarded the Padma Vibhushan in January 2025 for his or her contributions to literature and education?

Ans

1. Kumudini Lakhia ✓
2. MT Vasudevan Nair
3. Sharda Sinha
4. Osamu Suzuki

Question ID : 44100975796
Correct Option : 1

- Q.3** 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.)

Ans

1. RTU ✓
2. NPO
3. JLK
4. FHG

Question ID :
441009170398
Correct Option : 1

Q.4 Who was sworn in as the Chief Minister of Maharashtra on 5 December 2024, following the state assembly elections? Ans 1. Uddhav Thackeray 2. Ajit Pawar 3. Devendra Fadnavis ✓ 4. Eknath Shinde	Question ID : 44100975897 Correct Option : 3
Q.5 What is the work done in moving a charge of 10 C between two points with a potential difference of 14 V? Ans 1. 10 J 2. 14 J 3. 140 J ✓ 4. 1.4 J	Question ID : 441009105867 Correct Option : 3
Q.6 The Dachigam Sanctuary, located in Jammu and Kashmir in India, is home to which of the following species? Ans 1. Indian bison 2. Hippopotamus 3. One-horned rhinoceros 4. Snow leopard ✓	Question ID : 44100974324 Correct Option : 4
Q.7 Which constitutional amendment to the Indian Constitution introduced a Legislative Assembly for the Union Territory of Delhi? Ans 1. 1. 69th Amendment ✓ 2. 2. 74th Amendment 3. 3. 61st Amendment 4. 4. 42nd Amendment	Question ID : 44100989763 Correct Option : 1
Q.8 Which transformative reform was introduced in 2016, aiming to create 'one nation, one tax and one market' in India? Ans 1. Introduction of the Direct Tax Code 2. Implementation of the Goods and Services Tax ✓ 3. Revision of the Customs Act for certain goods 4. Nationalisation of state banks	Question ID : 44100995132 Correct Option : 2
Q.9 Six boxes A, B, C, D, E and F are kept one over the other but not necessarily in the same order. B is kept second from the bottom. Only one box is kept between B and F. Only three boxes are kept between C and D. D is kept immediately below B. Only two boxes are kept between A and E. A is kept immediately above C. Which box is third from the bottom? Ans 1. F 2. A 3. C 4. E ✓	Question ID : 441009170413 Correct Option : 4

Q.10 Read the given statements and conclusions carefully. Assuming that the information given in the statements 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 statements. Statements: All piles are quantities. All stores are quantities. Conclusions: (I): Some piles are stores. (II): Some quantities are stores. Ans 1. 1. Only conclusion (II) follows ✓ 2. 2. Only conclusion (I) follows 3. 3. Both conclusions (I) and (II) follow 4. 4. Neither conclusion (I) nor (II) follows	Question ID : 441009170433 Correct Option : 1
Q.11 Bleaching powder is a white solid with a strong chlorine smell. It is commonly used in: Ans 1. making fertilisers and plastics 2. manufacturing cement and glass 3. preserving food and softening water 4. disinfecting water and bleaching fabrics ✓	Question ID : 44100971202 Correct Option : 4
Q.12 Which of the following correctly lists the sections of the Western Coastal Plains in India? Ans 1. Konkan Coast, Karnataka Coast and Malabar Coast ✓ 2. Karnataka Coast, Eastern Coast and Malabar Coast 3. Northern Circar Coast, Malabar Coast and Coromandel Coast 4. Konkan Coast, Coromandal Coast and Vembanad Coast	Question ID : 44100977587 Correct Option : 1
Q.13 Which one of the following monuments, constructed during the Mughal rule, is situated on the bank of river Yamuna? Ans 1. Taj Mahal ✓ 2. Akbar's Tomb 3. Panch Mahal 4. Jama Masjid	Question ID : 44100973456 Correct Option : 1
Q.14 Which of the following is correct regarding complex permanent tissue of plants? Ans 1. Xylem is responsible for transporting organic nutrients 2. Phloem is responsible for transporting water 3. These tissues are plant tissues that consist of one type of cell 4. These tissues are essential for the plant's transport system ✓	Question ID : 44100970426 Correct Option : 4

Q.15 For image formation by a concave mirror, which of the following statements is true? Ans 1. The nature of the image is real and erect when the object is at the centre of curvature. 2. The size of the image is enlarged when the object is placed at infinity. 3. An object placed at the focus forms a highly diminished image. 4. At the centre of curvature, the size of the image is the same as the size of the object. ✓	Question ID : 44100995396 Correct Option : 4
Q.16 Which of the following options is true about carbon compound combustion? Ans 1. Needs more oxygen for complete combustion ✓ 2. Burns without oxygen 3. Always forms carbon monoxide 4. Never produces water	Question ID : 44100970174 Correct Option : 1
Q.17 Which of the following sexual maturation changes occur in females? Ans 1. Skin decreased oil production 2. Narrowing of hips 3. The breasts begin to grow ✓ 4. Stop of the menstrual cycle	Question ID : 44100965950 Correct Option : 3
Q.18 A vendor sold 20 chocolates for a rupee, thereby gaining 35%. How many did he buy for a rupee? Ans 1. 29 2. 27 ✓ 3. 31 4. 33	Question ID : 441009170037 Correct Option : 2
Q.19 Which of the following sacrificed their lives for the protection of Khejri trees? Ans 1. Savita Devi Bishnoi 2. Amrita Devi Bishnoi ✓ 3. Sunita Willium 4. Sunita Devi	Question ID : 44100969731 Correct Option : 2
Q.20 Which of the following statements about sensitivity in plants is INCORRECT? Ans 1. Plants have specialized Nervous tissues for conducting information. ✓ 2. Chemotropism is the growth response of plants to chemical stimuli in their environment. 3. Plants exhibit phototropism by growing towards the light source. 4. Thigmotropism is the response of plants to touch or physical contact.	Question ID : 44100961449 Correct Option : 1

Q.21 Under Article 74 of the Indian Constitution, the Union Council of Ministers is mandated to aid and advise which authority?

Ans

1. The Prime Minister of India
2. The Lok Sabha Speaker
3. The Supreme Court of India
4. **The President of India ✓**

Question ID : 44100989680
Correct Option : 4

Q.22 Who among the following social reformers worked to promote widow remarriage during the Indian National Movement?

Ans

1. Swami Vivekananda
2. Jyotirao Phule
3. **Ishwarchandra Vidyasagar ✓**
4. EV Ramaswamy Naicker

Question ID : 44100985940
Correct Option : 3

Q.23 Harish and Vineet move towards town B starting from town A, at a speed of 35 km/h and 36 km/h respectively. If Vineet reaches town B 40 minutes earlier than Harish, what is the distance between towns A and B?

Ans

1. 834 km
2. 838 km
3. 841 km
4. **840 km ✓**

Question ID :
441009170063
Correct Option : 4

Q.24 Identify the element whose given valency does not match its typical valency.

Element	Atomic number	Given valency
Be	4	2
Ne	10	0
Al	13	3
F	9	7

Ans

1. Al
2. **F ✓**
3. Ne
4. Be

Question ID : 44100971308
Correct Option : 2

Q.25 18 is related to 107 following a certain logic. Following the same logic, 21 is related to 125. To which of the given options is 14 related, following the same logic?

(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/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans

1. 91
2. 95
3. **83 ✓**
4. 87

Question ID :
441009170392
Correct Option : 3

Q.26 The angle of deviation for a ray of light after passing through a prism is ____. Ans 1. the angle of the prism 2. indeterminate 3. the angle between the emergent ray and incident ray ✓ 4. the angle between the incident ray and one of the sides of the prism	Question ID : 44100997867 Correct Option : 3
Q.27 The Indian government launched a new digital health initiative in 2025, to improve healthcare accessibility and interoperability of medical data. What is the name of this initiative? Ans 1. Ayushman Bharat Digital Mission 2.0 ✓ 2. Digital India Healthcare 2025 3. Bharat AI Health Grid 4. National Health Stack Expansion	Question ID : 44100977948 Correct Option : 1
Q.28 <i>The value of $\left(\frac{4}{7}\right) \times \left(\frac{21}{20}\right) + \left(\frac{6}{5} - 9\right)$ is</i> Ans 1. $-\frac{36}{5}$ ✓ 2. $-\frac{29}{3}$ 3. $-\frac{39}{8}$ 4. $-\frac{35}{9}$	Question ID : 441009170054 Correct Option : 1
Q.29 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.) Ans 1. ZS – EN 2. EA – JV 3. CO – HJ 4. MQ – RK ✓	Question ID : 441009170409 Correct Option : 4
Q.30 A and B can together complete a piece of work in 25 days. They worked together for 20 days and then B left. After another 10 days, A completed the remaining work. In how many days can A complete the entire work alone? Ans 1. 50 ✓ 2. 60 3. 40 4. 54	Question ID : 441009170045 Correct Option : 1

Section : Professional Ability

Q.31 Hydrogen peroxide vapour sterilisation differs from ethylene oxide in that it: Ans 1. Is non-flammable 2. Leaves no toxic residues ✓ 3. Requires higher temperatures 4. Cannot sterilise implants	Question ID : 441009136931 Correct Option : 2
Q.32 In determining the absolute bioavailability, systemic availability of a drug administered orally is determined by comparing it with: Ans 1. sublingual administration 2. rectal administration 3. intramuscular administration 4. intravenous administration ✓	Question ID : 441009161434 Correct Option : 4
Q.33 Glutaraldehyde is used as a/an: Ans 1. fungicide 2. antibiotic 3. antiseptic 4. surface disinfectant ✓	Question ID : 441009161366 Correct Option : 4
Q.34 Child proof packing is regulated through the: Ans 1. Pharmacy Council of India 2. Poison Prevention Rule 3. Poison Prevention Packaging Guideline 4. Poison Prevention Packaging Act ✓	Question ID : 441009161142 Correct Option : 4
Q.35 Sympathetic stimulation of the bladder causes: Ans 1. Increased urine production 2. Detrusor relaxation and internal sphincter contraction ✓ 3. External sphincter relaxation 4. Detrusor contraction and internal sphincter relaxation	Question ID : 441009136727 Correct Option : 2
Q.36 Feedback inhibition is also termed as: Ans 1. initial product inhibition 2. latent enzyme activation 3. compartmentation 4. end product inhibition ✓	Question ID : 441009163539 Correct Option : 4
Q.37 Which of the following is a plasma volume expander? Ans 1. Heparins 2. Apixaban 3. Human Albumin ✓ 4. Vitamin K	Question ID : 441009158363 Correct Option : 3

Q.38 Which interaction reduces the efficacy of boric acid? Ans 1. Mixing with alkaline solutions ✓ 2. Combination with antibiotics 3. Exposure to sunlight 4. Storage at high temperatures	Question ID : 441009137625 Correct Option : 1
Q.39 Ethylene oxide gas sterilisation requires: Ans 1. No aeration period 2. Immediate use post-sterilisation 3. High humidity and sealed chambers ✓ 4. Direct sunlight exposure	Question ID : 441009136927 Correct Option : 3
Q.40 Characteristics of consumer behaviour is a process where consumer decides whether: Ans 1. what to sell 2. what to buy ✓ 3. what to endorse 4. what to advertise	Question ID : 441009161757 Correct Option : 2
Q.41 Cell death which is caused by tissue injury is known as: Ans 1. Phagocytosis 2. Pinocytosis 3. Apoptosis 4. Necrosis ✓	Question ID : 441009158306 Correct Option : 4
Q.42 Which material is preferred for parenteral drug packaging due to chemical inertness? Ans 1. Polyethylene 2. Polyvinyl chloride 3. Aluminium foil 4. Borosilicate glass ✓	Question ID : 441009136920 Correct Option : 4
Q.43 What is the advantage of non per oral extravascular routes over other routes? Ans 1. Faster degradation of drug 2. Enhanced gastrointestinal motility 3. Avoidance of first pass metabolism ✓ 4. Enhanced first pass metabolism	Question ID : 441009161424 Correct Option : 3
Q.44 The study of the poisonous effect of drugs is known as: Ans 1. Pharmacotherapeutics 2. Toxicology ✓ 3. Clinical pharmacology 4. Pharmacy	Question ID : 441009158466 Correct Option : 2

Q.45 Which of the following is an example of absorption interaction? Ans 1. Folic acid - Phenytoin 2. Tetracycline - Milk ✓ 3. PAS - Probenecid 4. Corticosteroids - Barbiturates	Question ID : 441009161447 Correct Option : 2
Q.46 A single antibody molecule comprises of _____ polypeptide chains. Ans 1. three 2. two 3. four ✓ 4. six	Question ID : 441009161715 Correct Option : 3
Q.47 What is the full form of MFR? Ans 1. Master Formula Register 2. Manufacturing Formula Record 3. Master Formula Record ✓ 4. Main Formula Register	Question ID : 441009159180 Correct Option : 3
Q.48 Flocculation in colloidal suspensions refers to: Ans 1. Reversible aggregation of particles ✓ 2. Irreversible particle coalescence 3. Complete dissolution of particles 4. Uniform particle distribution	Question ID : 441009136879 Correct Option : 1
Q.49 Which of the following is incorrect statement in relation to adverse drug reaction? Ans 1. Type B is a known and dose related reaction ✓ 2. Type B reactions occurs due to pharmacologically known reaction of drug. 3. Type A reactions are also termed as predictable reaction 4. Type A reaction is patient dependent reaction	Question ID : 441009158346 Correct Option : 1
Q.50 Which of the following is an anti-hyperlipidemic drug? Ans 1. Tirofiban 2. Lovastatin ✓ 3. Ticagrelor 4. Rivaroxaban	Question ID : 441009158376 Correct Option : 2
Q.51 Which of the following components in functional foods helps improve digestive health? Ans 1. Preservatives 2. Artificial sweeteners 3. Probiotics ✓ 4. Antioxidants	Question ID : 441009163625 Correct Option : 3

Q.52 Which channel strategy maximizes profitability for high-margin speciality drugs? Ans 1. Direct-to-hospital sales ✓ 2. Mass-market retail 3. Third-party distributors 4. Discounted online platforms	Question ID : 441009137600 Correct Option : 1
Q.53 A combination of Aspirin and Paracetamol is said to have: Ans 1. Additive drug combinations ✓ 2. Supraadditive drug combinations 3. Functional antagonism 4. Antagonist effect	Question ID : 441009158355 Correct Option : 1
Q.54 Coronary angioplasty is treatment done in the case of: Ans 1. Angina Pectoris ✓ 2. Myocardial infarction 3. Arrhythmia 4. Edema	Question ID : 441009158299 Correct Option : 1
Q.55 Validation of chemical sterilisation cycles includes measuring: Ans 1. colour change indicators 2. pH of the solution 3. contact time and concentration ✓ 4. temperature only	Question ID : 441009136941 Correct Option : 3
Q.56 What does GACP stand for in the context of pharmaceutical and herbal product development? Ans 1. Global Association for Clinical Pharmacy 2. Good Agricultural and Collection Practice ✓ 3. Good Analytical and Clinical Practices 4. General Agricultural and Cultivation Policy	Question ID : 441009163587 Correct Option : 2
Q.57 Anticholinesterase are is commonly used as: Ans 1. Fungicide 2. Industrial pesticide 3. Agricultural and household insecticide ✓ 4. Agricultural fertilizer	Question ID : 441009158469 Correct Option : 3
Q.58 In an exothermic reaction, enthalpy is: Ans 1. zero 2. both negative and positive 3. only negative ✓ 4. only positive	Question ID : 441009163547 Correct Option : 3

Q.59 Which indicator is ideal for titrating acetic acid (weak acid) with sodium hydroxide (strong base)? Ans 1. Litmus 2. Phenolphthalein ✓ 3. Bromophenol blue 4. Methyl red	Question ID : 441009137614 Correct Option : 2
Q.60 Acid-base catalysis involves: Ans 1. Use of metal ions as catalysts 2. Formation of a covalent bond with the substrate 3. Transfer of electrons between reactants 4. Donation/acceptance of protons by the catalyst ✓	Question ID : 441009137674 Correct Option : 4
Q.61 'Orange peel effect' can be mitigated by: Ans 1. Slowing down the coating pan speed 2. Decreasing spray distance 3. Adding more talc to the coating formula 4. Using a finer spray nozzle ✓	Question ID : 441009136980 Correct Option : 4
Q.62 Orally administered osmotic pump is an example of: Ans 1. an immediate release drug delivery system 2. a controlled drug delivery system ✓ 3. a delayed release drug delivery system 4. a prolonged release drug delivery system	Question ID : 441009161729 Correct Option : 2
Q.63 What type of reaction occurs when alkanes react with oxygen? Ans 1. Substitution 2. Combustion ✓ 3. Addition 4. Elimination	Question ID : 441009137653 Correct Option : 2
Q.64 Which of the following is based on highly specific biological interactions between two molecules? Ans 1. Affinity chromatography ✓ 2. HPLC 3. Gas chromatography 4. Gel electrophoresis	Question ID : 441009158637 Correct Option : 1
Q.65 What quantitative tool evaluates the success of a new drug launch? Ans 1. Sales growth percentage ✓ 2. Brand association studies 3. Customer testimonials 4. Focus group feedback	Question ID : 441009137161 Correct Option : 1

Q.66 Cartilaginous framework of external nose is made up of: Ans 1. Hyaline cartilage ✓ 2. Cricoid cartilage 3. Conchae bone 4. Superior nasal concha	Question ID : 441009158331 Correct Option : 1
Q.67 Which disorder is characterised by autoimmune demyelination of CNS neurons? Ans 1. Meningitis 2. Epilepsy 3. Multiple sclerosis ✓ 4. Huntington's disease	Question ID : 441009136658 Correct Option : 3
Q.68 Which of the following is a Carbonic Anhydrase Inhibitors? Ans 1. Telmisartan 2. Torsemide 3. Acetazolamide ✓ 4. Furosemide	Question ID : 441009163555 Correct Option : 3
Q.69 Which branch of pharmacology studies "what the drug does to the body"? Ans 1. Pharmacokinetics 2. Pharmacodynamics ✓ 3. Pharmacovigilance 4. Pharmacotherapeutics	Question ID : 441009136737 Correct Option : 2
Q.70 Prazosin is a: Ans 1. Non-selective α-blocker 2. β2 agonist 3. α1-selective blocker ✓ 4. β1-selective blocker	Question ID : 441009136811 Correct Option : 3
Q.71 According to quality guidelines, Q2 signifies: Ans 1. analytical validation ✓ 2. stability 3. good manufacturing practice 4. pharmaceutical quality system	Question ID : 441009159176 Correct Option : 1
Q.72 Cidofovir is primarily used to treat: Ans 1. Cytomegalovirus (CMV) retinitis ✓ 2. Herpes simplex virus infections 3. Hepatitis C 4. Influenza A	Question ID : 441009137721 Correct Option : 1

Q.73 How is bioequivalence statistically evaluated? Ans 1. Pearson correlation 2. Kaplan-Meier analysis 3. Analysis of variance (ANOVA) ✓ 4. Chi-square test	Question ID : 441009137015 Correct Option : 3
Q.74 The volume capacity of a size 1 hard capsule is approximately: Ans 1. 0.7 mL 2. 0.5 mL ✓ 3. 1.0 mL 4. 1.5 mL	Question ID : 441009136889 Correct Option : 2
Q.75 Child proof packing must meet the performance specifications outlined in: Ans 1. Quality standards 2. CFR ✓ 3. Schedules 4. GMP	Question ID : 441009161150 Correct Option : 2
Q.76 Interferon-α produced via rDNA technology is primarily used to treat: Ans 1. Hypertension 2. Asthma 3. Diabetes mellitus 4. Chronic hepatitis C ✓	Question ID : 441009137112 Correct Option : 4
Q.77 Phase 2 of equipment validation refers to: Ans 1. process validation phase ✓ 2. pre-validation phase 3. design qualification 4. validation maintenance phase	Question ID : 441009159162 Correct Option : 1
Q.78 What is the main purpose of consuming functional foods? Ans 1. To support specific body functions and prevent diseases ✓ 2. To gain weight quickly 3. To replace regular medicines 4. To enhance flavour in meals	Question ID : 441009163628 Correct Option : 1
Q.79 Which of the following governing bodies is constituted every five years by the Central Government? Ans 1. State pharmacy council 2. State tribunals 3. Drug inspector 4. Pharmacy council of India ✓	Question ID : 441009161409 Correct Option : 4

Q.80 Meiosis results in _____ number of cells are formed. Ans 1. 16 2. 2 3. 4 ✓ 4. 32	Question ID : 441009158313 Correct Option : 3
Q.81 The most common type of kidney stone is composed of: Ans 1. Struvite 2. Uric acid 3. Calcium oxalate ✓ 4. Cystine	Question ID : 441009136701 Correct Option : 3
Q.82 How does the inspiratory flow rate affect drug deposition in dry powder inhalers? Ans 1. Lower flow rates improve lung deposition 2. Flow rate has no impact 3. Higher flow rates enhance deep lung deposition ✓ 4. Higher flow rates decrease fine particle fraction	Question ID : 441009137144 Correct Option : 3
Q.83 Quaternary ammonium compounds (QACs) are: Ans 1. Anionic surfactants 2. Cationic surfactants ✓ 3. Phenolic derivatives 4. Biguanides	Question ID : 441009136952 Correct Option : 2
Q.84 The purpose of carrying out distillation under reduced pressure is to: Ans 1. enhance the efficacy of the distillation process 2. avoid thermal degradation of molecules ✓ 3. enhance the boiling point of mixtures 4. separate of azeotropes and liquids of similar volatility	Question ID : 441009161388 Correct Option : 2
Q.85 Which of the following best describes a free radical? Ans 1. An unstable molecule with unpaired electrons. ✓ 2. A compound that always benefits the body. 3. A molecule that only exists in vitamins. 4. A stable molecule with paired electrons.	Question ID : 441009163617 Correct Option : 1
Q.86 Which of the following is/are used to make a homogeneously dispersed aerosol preparation? Ans 1. Glidant 2. Binder 3. Surfactants ✓ 4. Detergents	Question ID : 441009161134 Correct Option : 3

Q.87 A person is eligible for pharmacy registration if she or he: Ans 1. has been engaged in the compounding of drugs in a hospital or dispensary for not less than three months 2. has been engaged in the dispensing of drugs for not less than six months 3. has a degree or diploma in pharmacy from an Indian University or a State Government ✓ 4. has been engaged in the compounding of drugs in a hospital or dispensary for not less than six months	Question ID : 441009161403 Correct Option : 3
Q.88 Global acceptance of herbal drug standards is facilitated by : Ans 1. National pharmacopoeias 2. Traditional medicine registries 3. ICH harmonization efforts ✓ 4. Mutual recognition agreements	Question ID : 441009137748 Correct Option : 3
Q.89 Which structure prevents the backflow of stomach acid into the esophagus? Ans 1. Sphincter of Oddi 2. Lower esophageal sphincter ✓ 3. Ileocecal valve 4. Pyloric sphincter	Question ID : 441009136652 Correct Option : 2
Q.90 Identify, which of the following is not a liquid dosage form? Ans 1. Tablet ✓ 2. Enemas 3. Ear drops 4. Nasal drops	Question ID : 441009161126 Correct Option : 1
Q.91 Serotonin syndrome is most likely caused by combining Selective Serotonin Reuptake Inhibitors with: Ans 1. Monoamine oxidase inhibitors ✓ 2. Beta-blockers 3. Non-steroidal anti-inflammatory drugs 4. Diuretics	Question ID : 441009136833 Correct Option : 1
Q.92 Which of the following is an example of fibrous joints? Ans 1. Labrum 2. Symphysis 3. Syndesmoses ✓ 4. Synchrondrosis	Question ID : 441009158341 Correct Option : 3

Q.93 ASUDTAB stands for: Ans 1. Ayurvedic, Siddha and Unani Drugs Advisory Board 2. Ayurvedic, Siddha and Unani Drugs Technical Advisory Committee 3. Ayurvedic, Siddha and Unani Drugs Technical Adjuvant Board 4. Ayurvedic, Siddha and Unani Drugs Technical Advisory Board ✓	Question ID : 441009161412 Correct Option : 4
Q.94 Under the Pharmacy Act 1948, who constitutes the State Pharmacy Council? Ans 1. Only government officials 2. Elected pharmacists and government nominees ✓ 3. Members appointed by the Central Council 4. Representatives from medical colleges	Question ID : 441009136988 Correct Option : 2
Q.95 Good manufacturing practice is a part of: Ans 1. safety guidelines 2. efficacy guidelines 3. multidisciplinary guidelines 4. quality management systems ✓	Question ID : 441009159194 Correct Option : 4
Q.96 Which agency oversees pharmacovigilance in India? Ans 1. Food and Drug Administration (FDA) 2. Central Drugs Standard Control Organisation (CDSCO) ✓ 3. World Health Organization (WHO) 4. European Medicines Agency (EMA)	Question ID : 441009136836 Correct Option : 2
Q.97 The final electron acceptor in the electron transport chain is : Ans 1. Cytochrome c 2. Coenzyme Q 3. Oxygen ✓ 4. ATP synthase	Question ID : 441009137664 Correct Option : 3
Q.98 Glassware and metal ware can be sterilised through: Ans 1. disinfection 2. chemical sterilisation 3. gaseous sterilisation 4. dry heat sterilisation ✓	Question ID : 441009161377 Correct Option : 4
Q.99 What is the optical device used to draw images from a microscope called? Ans 1. Scanning electron microscope 2. Stage micrometer 3. Optical microscope 4. Camera lucida ✓	Question ID : 441009163565 Correct Option : 4

Q.100 Non-competitive antagonism differs from competitive antagonism by:

Ans

1. Dose-dependent reversal
2. Acting on the same receptor site
3. **Reduced maximal response even at high agonist doses ✓**
4. Reversible receptor binding

Question ID :
441009136755
Correct Option : 3

Blackbook



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PAPER 2 of 2 · Pharmacist (Entry Grade) · English

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Correct option of the official answer key: **green with ✓**. Question IDs are RRB's own.

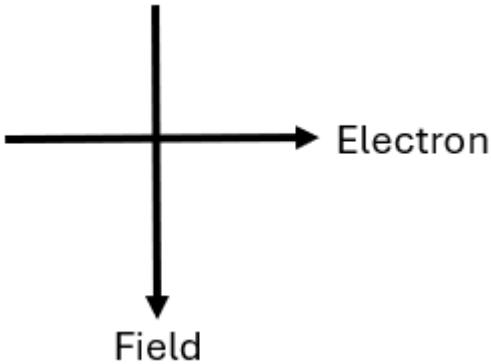
Section : General Ability

Q.1 The image formed by a convex mirror is always ____. Ans 1. erect and diminished ✓ 2. erect and of same size as the object 3. inverted and diminished 4. inverted and of same size as the object	Question ID : 44100995483 Correct Option : 1
Q.2 Which of the following factor is NOT responsible for the survival of species over time? Ans 1. Habitat availability 2. Astrological Signs ✓ 3. Reproduction 4. Variation	Question ID : 44100967002 Correct Option : 2
Q.3 If the lateral surface area of a cylinder is 336.4 cm^2 and its height is 23 cm, then find its volume. (Use $\pi = 3.14$ and round off to two decimal place) Ans 1. $1.372.99 \text{ cm}^3$ 2. $2.391.74 \text{ cm}^3$ ✓ 3. $3.370.76 \text{ cm}^3$ 4. $4.384.33 \text{ cm}^3$	Question ID : 441009170069 Correct Option : 2
Q.4 The focus of a spherical mirror lies 18 cm from the pole of the mirror. What is the position of the centre of curvature in cm from the pole of the mirror? Ans 1. 36 cm ✓ 2. 9 cm 3. 27 cm 4. 40 cm	Question ID : 44100995398 Correct Option : 1

Q.5 Which ruler is associated with the construction of the famous Alahi Darwaja also called Alai Darwaja? Ans 1. Firoz Shah Tughlaq 2. Mohammad Bin Tughlaq 3. Ala-ud-din Khalji ✓ 4. Jalal-ud-din Khalji	Question ID : 44100973388 Correct Option : 3
Q.6 Tarun and Varun move towards town B starting from town A, at a speed of 57 km/h and 60 km/h respectively. If Varun reaches town B 33 minutes earlier than Tarun, what is the distance between towns A and B? Ans 1. 627 km ✓ 2. 625 km 3. 633 km 4. 619 km	Question ID : 441009170065 Correct Option : 1
Q.7 Consider the following statements regarding the reactivity series of metals. Which of these statements is/are correct? Statement I: A piece of iron placed in a solution of copper sulfate gradually develops a reddish layer. Statement II: Copper is more reactive than iron and replaces it in the solution. Ans 1. Only Statement 1 is true ✓ 2. Both statements are false 3. Only Statement 2 is true 4. Both statements are true	Question ID : 44100971227 Correct Option : 1
Q.8 What is the increased credit limit under the Modified Interest Subvention Scheme for Kisan Credit Cards (KCC) as announced in the Union Budget 2025? Ans 1. ₹1 lakh 2. ₹3 lakh 3. ₹2 lakh 4. ₹5 lakh ✓	Question ID : 44100977927 Correct Option : 4
Q.9 The value of $\left(\frac{5}{8}\right) \times \left(\frac{24}{25}\right) + \left(\frac{9}{5} - 4\right)$ is Ans 1. $-\frac{6}{7}$ 2. $-\frac{8}{5}$ ✓ 3. $\frac{1}{4}$ 4. $-\frac{2}{3}$	Question ID : 441009170053 Correct Option : 2

Q.10 Which of the following options describes the enforceability of the Directive Principles of State Policy in India? Ans 1. They are binding on the legislature and the executive, with penalties for non-compliance. 2. They are non-justiciable guidelines and cannot be enforced by courts. ✓ 3. They are enforceable only by the Supreme Court when Fundamental Rights are violated. 4. They are enforceable like Fundamental Rights and can be directly challenged in the courts.	Question ID : 44100988741 Correct Option : 2
Q.11 What should come in place of the question mark (?) in the given series based on the English alphabetical order? WIB UFX SCT QZP ? Ans 1. OWL ✓ 2. MUM 3. NVJ 4. NYK	Question ID : 441009170401 Correct Option : 1
Q.12 Who among the following was the intended target of the bomb thrown at a carriage by Khudiram Bose and Prafulla Chaki in 1908? Ans 1. Governor-General Lord Curzon 2. Viceroy Lord Hardinge 3. Magistrate Douglas Kingsford ✓ 4. Lord Ripon	Question ID : 44100984104 Correct Option : 3
Q.13 Which Indian film won the Best Film Award at the Asian Film Awards 2025? Ans 1. The White Tiger 2. All We Imagine As Light ✓ 3. Gully Boy 4. The Disciple	Question ID : 44100975829 Correct Option : 2
Q.14 Which of the following is NOT correct regarding connective tissue? Ans 1. Ligaments connect bone to bone 2. Areolar connective tissue is found between the skin and muscle 3. Tendons connect muscle to bone 4. Fat storing adipose tissue is found above the skin ✓	Question ID : 44100971337 Correct Option : 4
Q.15 Which committee's recommendations have long been influential in defining the poverty line in India using a consumption expenditure approach? Ans 1. Sachar Committee 2. Rangarajan Committee 3. Tendulkar Committee ✓ 4. Balakrishnan Committee	Question ID : 44100993360 Correct Option : 3

Q.16 Under which Article of the Indian Constitution does the Supreme Court of India have original jurisdiction to adjudicate disputes between the Government of India and one or more States, or between different States? Ans - Article 136 - Article 132 - Article 226 Article 131 ✓	Question ID : 44100989717 Correct Option : 4
Q.17 Why is a coordinated effort from all the levels of government essential for sustainable development? Ans It helps integrate socio-economic development with environmental sustainability. ✓ - It allows for the privatisation of environmental resources. - It delays the implementation of sustainable practices. - It ensures that only economic issues are addressed.	Question ID : 44100977079 Correct Option : 1
Q.18 Each of L, M, N, O, W, X and Y has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. Only Y has exam before X. Only three people have exam between M and X. Only three people have exam between L and O. W has exam on some day before O and on some day after N. How many people have exam after L? Ans - One - Three Four ✓ - Two	Question ID : 441009170405 Correct Option : 3
Q.19 4 men and 6 women can complete a piece of work in 8 days, while 3 men and 7 women can complete it in 10 days. In how many days will 16 women complete it? Ans 36 25 ✓ 16 40	Question ID : 441009170046 Correct Option : 2
Q.20 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete? ACT123, IKB110, QSJ97, YAR84, ? Ans - GIM71 - LIZ71 - GOZ71 GIZ71 ✓	Question ID : 441009170412 Correct Option : 4

Q.21 Why do the hydrophobic tails of soap molecules stay inside the micelles? Ans 1. They are repelled by water. ✓ 2. They dissolve completely in water. 3. They are strongly attracted to water. 4. They form chemical bonds with water.	Question ID : 44100970205 Correct Option : 1
Q.22 Which key feature of Thomson's Atomic Model helped explain the electrical neutrality of an atom? Ans 1. The positive charge was concentrated in the centre. 2. The positive and negative charges are equal in magnitude. ✓ 3. Electrons revolved around the nucleus in fixed orbits. 4. The nucleus contained both, protons and neutrons.	Question ID : 44100971260 Correct Option : 2
Q.23 What will be the direction of the force based on the direction of current and magnetic field as shown in the figure?  Ans 1. To the left 2. To the right 3. Out of the page ✓ 4. Into the page	Question ID : 441009105923 Correct Option : 3
Q.24 A man receives ₹8680 per month as salary. He saves 65% of his salary every month. His expenditure per month is: Ans 1. ₹3038 ✓ 2. ₹2995 3. ₹2959 4. ₹3043	Question ID : 441009170038 Correct Option : 1
Q.25 Which of the following statements is correct about the nucleus? Ans 1. The nucleus contains mitochondria 2. Nucleus has a single layer covering 3. Nuclear membrane has pores ✓ 4. The nucleus contains chloroplast	Question ID : 44100963229 Correct Option : 3

Q.26 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the pair in which the numbers are related in the same way as are the numbers of the following pairs. (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.) 59, 71.6 86, 98.6 Ans 92, 106.6 41, 63.6 77, 91.6 65, 77.6 ✓	Question ID : 441009170394 Correct Option : 4
Q.27 Rohan starts from Point A and drives 4 km towards East. He then takes a right turn, drives 3 km, turns left and drives 6 km. He then takes a left turn and drives 3 km. He takes a final right turn, drives 3 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified) Ans 7 km towards South 13 km towards East 3 km towards North 13 km towards West ✓	Question ID : 441009170435 Correct Option : 4
Q.28 Which of the following glands secretes growth hormone? Ans - Ovaries Pituitary gland ✓ - Thyroid gland - Testes	Question ID : 44100971507 Correct Option : 2
Q.29 Under which scheme will the registered gig workers on the e-Shram portal receive healthcare benefits in 2025? Ans - Pradhan Mantri Awas Yojana (PMAY) - Pradhan Mantri Kisan Samman Nidhi (PM-KISAN) - Atal Pension Yojana (APY) Ayushman Bharat PM Jan Arogya Yojana (AB-PM-JAY) ✓	Question ID : 44100977930 Correct Option : 4
Q.30 Select the correct pairing between a Himalayan division and a notable geographical feature associated with it: Ans - Lesser Himalayas – Bara Lacha-La Valleys located between the Lesser Himalayas and the Outer Himalayas – Duns ✓ - Lesser Himalayas – Mount Everest - Valleys located between the Greater Himalayas and the Lesser Himalayas – Duns	Question ID : 44100977631 Correct Option : 2

Section : Professional Ability

Q.31 DNA ligase is used to:

Ans

1. start the replication process
2. bind with start codon
3. cut down DNA fragments

4. seal the cut down DNA fragments ✓

Question ID : 441009161456

Correct Option : 4

Q.32 Which of the following do not acts as antidepressants:

Ans

1. Triflupromazine ✓

2. Fluvoxamine
3. Fluoxetine
4. Moclobemide

Question ID :

441009158458

Correct Option : 1

Q.33 The physical method of evaluation of crude drugs is:

Ans

1. refractive index ✓

2. shape
3. colour
4. odour

Question ID :

441009163590

Correct Option : 1

Q.34 Which drug is a direct-acting vasodilator?

Ans

1. Minoxidil ✓

2. Metoprolol
3. Captopril
4. Propranolol

Question ID :

441009136796

Correct Option : 1

Q.35 Appetite stimulants can be also called as:

Ans

1. Cholinergic agent

2. Orexigenic agent ✓

3. Antianginal agent
4. Mutagenic agent

Question ID :

441009158423

Correct Option : 2

Q.36 A major disadvantage of gelatin capsules is:

Ans

1. High stability in humid conditions
2. Cost-effective manufacturing
3. Patient-friendly administration

4. Incompatibility with acidic drugs ✓

Question ID :

441009136882

Correct Option : 4

Q.37 The smallest standard hard capsule size is :

Ans

1. Size 5 ✓

2. Size 0
3. Size 2
4. Size 3

Question ID :

441009136886

Correct Option : 1

Q.38 The formation of microencapsulation technique using coacervation phase separation technique is a ____. Ans 1. single-step process 2. two-step process 3. five-step process 4. three-step process ✓	Question ID : 441009161733 Correct Option : 4
Q.39 A straw colored liquid after the removal of the formed elements in the blood is called ____. Ans 1. RBC 2. WBC 3. Plasma ✓ 4. Serum	Question ID : 441009158320 Correct Option : 3
Q.40 Latin or English names of crude drugs are considered in which system of classification of drugs? Ans 1. Morphological classification 2. Alphabetical classification ✓ 3. Chemical classification 4. Pharmacological classification	Question ID : 441009163559 Correct Option : 2
Q.41 Genetical abnormal reactivity to a chemical is also known as: Ans 1. Hypersensitivity 2. Poisoning 3. Intolerance 4. Idiosyncrasy ✓	Question ID : 441009158351 Correct Option : 4
Q.42 According to GMP for sterile dosage forms, which grade of clean area is used for preparation and filling? Ans 1. Grade C 2. Grade A ✓ 3. Normal room conditions 4. Grade D	Question ID : 441009159186 Correct Option : 2
Q.43 Which of the following methods is NOT used for enzyme immobilisation? Ans 1. Physical entrapment 2. Non-covalent adsorption and deposition 3. Covalent attachment 4. Complexation ✓	Question ID : 441009161707 Correct Option : 4

Q.44 Identify the type of centrifuge that can be used to separate two immiscible liquids, from the given options. Ans 1. Non-perforated basket centrifuge 2. Continuous horizontal centrifuge 3. Perforated basket centrifuge 4. Super centrifuge ✓	Question ID : 441009161384 Correct Option : 4
Q.45 Radio immunoassays can be done using: Ans 1. radioactive antibodies ✓ 2. enzyme antibodies 3. lable 4. radioactive ions	Question ID : 441009161721 Correct Option : 1
Q.46 What quantitative method helps optimize drug store inventory? Ans 1. Focus group feedback 2. Brand equity mapping 3. SWOT analysis 4. ABC classification ✓	Question ID : 441009137156 Correct Option : 4
Q.47 Boxer's fracture is the fracture of: Ans 1. Ilium 2. Metacarpel ✓ 3. Pelvic Girdle 4. Facial bones	Question ID : 441009158338 Correct Option : 2
Q.48 Ksira paka is obtained by: Ans 1. plant boiled in ethanol and decanted 2. plant boiled in ethanol and filtered 3. plant boiled in milk and filtered ✓ 4. plant boiled in water and filtered	Question ID : 441009163579 Correct Option : 3
Q.49 Which of the following is an example of an allylamine antifungal? Ans 1. Caspofungin 2. Amphotericin B 3. Fluconazole 4. Terbinafine ✓	Question ID : 441009137710 Correct Option : 4
Q.50 Which of the following is an example of an azole antifungal? Ans 1. Fluconazole ✓ 2. Caspofungin 3. Amphotericin B 4. Terbinafine	Question ID : 441009137714 Correct Option : 1

Q.51 A thin partition between left and right artery is known as: Ans 1. Interatrial septum ✓ 2. Sulci 3. Pectinate muscles 4. Coronary sulcus	Question ID : 441009158302 Correct Option : 1
Q.52 The minimum inhibitory concentration (MIC) measures: Ans 1. Lowest concentration to kill bacteria 2. Highest concentration tolerated by humans 3. Lowest concentration to inhibit growth ✓ 4. Time required for sterilisation	Question ID : 441009136945 Correct Option : 3
Q.53 Large molecules like heparin and insulin can be easily made absorbable by the preparation of: Ans 1. lotions 2. emulsion ✓ 3. syrups 4. suspension	Question ID : 441009159215 Correct Option : 2
Q.54 Which of the following is a calcium channel blocker used in the treatment of anti-hypertensive drugs? Ans 1. Labetalol 2. Methyldopa 3. Amlodipine ✓ 4. Clonidine	Question ID : 441009158408 Correct Option : 3
Q.55 Anaphylaxis is an example of: Ans 1. type IV hypersensitivity 2. type I hypersensitivity ✓ 3. type II hypersensitivity 4. type III hypersensitivity	Question ID : 441009137130 Correct Option : 2
Q.56 Aspirin exerts its anti-platelet effect by: Ans 1. Inhibiting phosphodiesterase 2. Activating plasminogen 3. Blocking P2Y12 receptors 4. Irreversibly inhibiting cyclooxygenase (COX) ✓	Question ID : 441009136771 Correct Option : 4
Q.57 Which is an example of a dentifrice? Ans 1. Denture adhesive 2. Dental floss 3. Toothpaste ✓ 4. Mouthwash	Question ID : 441009136902 Correct Option : 3

Q.58 Artificial sweeteners like saccharin are used in monophasic liquids to: Ans 1. Prevent oxidation 2. Stabilise pH 3. Enhance antimicrobial activity 4. Improve taste without calories ✓	Question ID : 441009136909 Correct Option : 4
Q.59 Which of the following gases is used for gaseous sterilisation? Ans 1. Hydrogen sulphide 2. Ethylene oxide ✓ 3. Nitrogen oxide 4. Nitrogen	Question ID : 441009161370 Correct Option : 2
Q.60 Which component of an enzyme is directly involved in substrate binding? Ans 1. Allosteric site 2. Regulatory site 3. Active site ✓ 4. Cofactor	Question ID : 441009137122 Correct Option : 3
Q.61 Leprosy can be classified into: Ans 1. 7 classes 2. 6 classes 3. 5 classes ✓ 4. 3 classes	Question ID : 441009158325 Correct Option : 3
Q.62 Which inhibitor competes with oxygen at the terminal oxidase? Ans 1. Cyanide ✓ 2. Rotenone 3. Malonate 4. Amytal	Question ID : 441009137656 Correct Option : 1
Q.63 Parabens act as preservatives by: Ans 1. Disrupting microbial cell membranes ✓ 2. Neutralising acids 3. Oxidising pathogens 4. Chelating metal ions	Question ID : 441009136911 Correct Option : 1
Q.64 Vigorous agitation during filtration may lead to: Ans 1. Increased filtrate clarity 2. Cake compaction and reduced flow ✓ 3. Enhanced particle capture 4. Uniform cake distribution	Question ID : 441009136960 Correct Option : 2

Q.65 Cholestyramine reduces low-density lipoprotein cholesterol by: Ans 1. Blocking cholesterol synthesis 2. Binding bile acids in the gut ✓ 3. Enhancing reverse cholesterol transport 4. Inhibiting cholesterol absorption	Question ID : 441009136791 Correct Option : 2
Q.66 Metal ion indicators are used in: Ans 1. acid-base titration 2. complexometric titration ✓ 3. precipitation titration 4. oxidation-reduction titration	Question ID : 441009159167 Correct Option : 2
Q.67 Steam distillation is used to extract: Ans 1. Inorganic salts 2. Volatile oils from plant materials ✓ 3. Non-volatile polymers 4. Insoluble solids	Question ID : 441009136907 Correct Option : 2
Q.68 The first pure alkaloid isolated from a natural source was : Ans 1. Quinine 2. Cocaine 3. Atropine 4. Morphine ✓	Question ID : 441009137742 Correct Option : 4
Q.69 Which statement violates the Drug and Magic Remedies Act? Ans 1. Cures cancer in 30 days. ✓ 2. Safe for all ages. 3. Consult your doctor before use. 4. This drug is clinically proven.	Question ID : 441009136986 Correct Option : 1
Q.70 Which of the following numbers is referred to as the largest sized capsule? Ans 1. 5 2. 3 3. 4 4. 000 ✓	Question ID : 441009159243 Correct Option : 4
Q.71 Which of the following is a harmful effect of free radicals in the human body? Ans 1. Improves digestion 2. Promotes cell repair 3. Causes oxidative damage to cells ✓ 4. Enhances enzyme activity	Question ID : 441009163619 Correct Option : 3

Q.72 What is the role of P-glycoprotein in drug absorption? Ans 1. Acts as a receptor 2. Facilitates uptake 3. Enhances absorption 4. Mediates efflux ✓	Question ID : 441009137007 Correct Option : 4
Q.73 What is the purpose of a 'bonded warehouse' associated with a bonded laboratory? Ans 1. Storage of raw materials 2. Waste disposal facility 3. Distribution center for finished products 4. Secure storage of proprietary medicine samples ✓	Question ID : 441009137001 Correct Option : 4
Q.74 HMG-COA reductase inhibitors are also known as: Ans 1. PPARa agonists: Fibrates 2. Triglyceride synthesis inhibitor 3. Statins ✓ 4. Bile acid sequestrants	Question ID : 441009158400 Correct Option : 3
Q.75 How do regulatory requirements influence channel selection for controlled-substances? Ans 1. Allow unrestricted distribution 2. Restrict distribution to licensed pharmacies ✓ 3. Encourage online sales 4. Mandate direct-to-consumer sales	Question ID : 441009137167 Correct Option : 2
Q.76 Which enzyme system is most commonly involved in drug metabolism interactions? Ans 1. Monoamine oxidase 2. Alcohol dehydrogenase 3. UDP-glucuronosyltransferase 4. Cytochrome P450 ✓	Question ID : 441009137100 Correct Option : 4
Q.77 Which of the following is an example of MAO-B Inhibitors? Ans 1. Ropinirole 2. Selegiline ✓ 3. Amantadine 4. Bromocriptine	Question ID : 441009158451 Correct Option : 2
Q.78 An inert electrode is used in electrochemical cells when: Ans 1. the reaction involves gas evolution 2. the electrode material participates in the redox reaction 3. the electrode must conduct electrons without reacting ✓ 4. the cell requires high voltage	Question ID : 441009137688 Correct Option : 3

Q.79 Relative bioavailability compares: Ans 1. Two different routes of administration 2. Plasma levels across species 3. Two oral formulations of the same drug ✓ 4. A drug's absorption in fasting vs. fed states	Question ID : 441009137012 Correct Option : 3
Q.80 Methyl polysiloxane can be classified as: Ans 1. Antiemetics drugs 2. Digestants ✓ 3. Prokinetic drugs 4. Gallstone dissolving drugs	Question ID : 441009158444 Correct Option : 2
Q.81 According to Huckel's rule, an aromatic compound contains: Ans 1. $4n - 2\pi$ electrons 2. $4n + 3\pi$ electrons 3. $4n + 2\pi$ electrons ✓ 4. $N + \pi$ electrons	Question ID : 441009161787 Correct Option : 3
Q.82 Which of the following is a parenteral anticoagulant? Ans 1. Warfarin sod. 2. Dabigatran etexilate 3. Low molecular weight heparins ✓ 4. Apixaban	Question ID : 441009158357 Correct Option : 3
Q.83 Which neurotransmitter acts on the detrusor muscle to initiate contraction? Ans 1. Norepinephrine 2. Serotonin 3. Acetylcholine ✓ 4. Dopamine	Question ID : 441009136716 Correct Option : 3
Q.84 What is the purpose of the annealing step in a Polymerase Chain Reaction? Ans 1. To bind primers to template DNA ✓ 2. To terminate the reaction 3. To melt DNA strands 4. To extend primers	Question ID : 441009137118 Correct Option : 1
Q.85 The term 'precipitant drug' refers to: Ans 1. A drug requiring dose adjustment 2. The drug causing the interaction ✓ 3. A drug that precipitates out of solution 4. The drug whose effect is altered	Question ID : 441009137029 Correct Option : 2

Q.86 Which benzodiazepine has a nitro group at the 7-position, contributing to its anticonvulsant activity? Ans 1. Clonazepam ✓ 2. Nitrazepam 3. Diazepam 4. Lorazepam	Question ID : 441009137725 Correct Option : 1
Q.87 Permethrin is a: Ans 1. Pyrethroid insecticide ✓ 2. Pediculocide 3. Antipruritic 4. Fungicide	Question ID : 441009158476 Correct Option : 1
Q.88 Calculate the equivalent weight of H_2SO_4 (molar mass = 98 g/mol) in an acid-base reaction. Ans 1. 24.5 g/equiv 2. 100 g/equiv 3. 49 g/equiv ✓ 4. 196 g/equiv	Question ID : 441009136853 Correct Option : 3
Q.89 Chlorine-based disinfectants primarily act by: Ans 1. Denaturing proteins 2. Inhibiting DNA replication 3. Disrupting membrane integrity ✓ 4. Oxidising cell walls	Question ID : 441009136936 Correct Option : 3
Q.90 Dipyridamole enhances anti-platelet effects by: Ans 1. Inhibiting phosphodiesterase and adenosine uptake ✓ 2. Activating plasminogen 3. Antagonizing thromboxane receptors 4. Directly inhibiting cyclooxygenase activity	Question ID : 441009136776 Correct Option : 1
Q.91 The term "standardization" in herbal drug quality control refers to: Ans 1. packaging specifications 2. consistent levels of marker compounds ✓ 3. sterilization validation 4. uniform particle size distribution	Question ID : 441009137764 Correct Option : 2
Q.92 The chemical potential (μ) of a component in a system is defined as : Ans 1. The partial molar internal energy 2. The partial molar entropy 3. The partial molar enthalpy 4. The partial molar Gibbs free energy ✓	Question ID : 441009137694 Correct Option : 4

Q.93 Hess's Law states that: Ans 1. enthalpy increases with temperature 2. the total enthalpy change depends only on initial and final states ✓ 3. heat capacity determines reaction spontaneity 4. enthalpy is conserved in all reactions	Question ID : 441009137699 Correct Option : 2
Q.94 The primary mechanism in a fluid bed mixer is: Ans 1. Shear 2. Convection ✓ 3. Diffusion 4. Electrostatic attraction	Question ID : 441009136966 Correct Option : 2
Q.95 7.045 can be rounded of as: Ans 1. 7.05 ✓ 2. 7.5 3. 7.4 4. 7.04	Question ID : 441009158651 Correct Option : 1
Q.96 What is the separation and purification of different components in a liquid mixture known as? Ans 1. Size separation 2. Sublimation 3. Distillation ✓ 4. Filtration	Question ID : 441009159263 Correct Option : 3
Q.97 Which drug is used as an appetite stimulant in cancer cachexia? Ans 1. Phentermine 2. Topiramate 3. Megestrol acetate ✓ 4. Lorcaserin	Question ID : 441009136803 Correct Option : 3
Q.98 Complex reactions are: Ans 1. 2-step reactions 2. multistep reactions ✓ 3. elementary reactions 4. single step reactions	Question ID : 441009163543 Correct Option : 2
Q.99 Who is responsible for approving the Installation qualification (IQ) protocol . Ans 1. Equipment vendor 2. Regulatory inspector 3. Quality Assurance (QA) department ✓ 4. Production manager	Question ID : 441009136856 Correct Option : 3

Q.100 The name given to a drug by the manufacturer is known as:

Ans

1. Non-proprietary name
2. **Proprietary name** ✓
3. Generic name
4. Chemical name

Question ID :
441009158342
Correct Option : 2

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