



RRB JE 2024 CBT-2 Mechanical

Junior Engineer · Mechanical Engineering · CEN 03/2024 · CBT-2 · General Abilities · Question Paper

English

All 3 Shifts (Sets) · General Abilities Section · Official Answer Key

About this Compilation

This booklet contains all **3 shift papers** of the **RRB JE 2024 CBT-2 (Mechanical Engineering)** examination in **English (General Abilities)** section only, with the correct option marked as per the official answer key.

✓ Correct option (highlighted green)

How to use

- Use the **Index** page to jump directly to any set (clickable).
- Questions appear section by section in the order of the paper, 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

22 Apr 2025
9:00 AM - 11:00 AM

Set 3

04 Jun 2025
9:00 AM - 11:00 AM

Set 2

22 Apr 2025
2:30 PM - 4:30 PM

General Abilities

50 Questions • Answer Key

Q1 General Abilities

What is the approximate pH of a neutral salt solution?

- A. More than 7
- B. Less than 7
- C. Depends on the temperature
- D. Equal to 7



Q2 General Abilities

Which of the following CANNOT be considered as a measure to control global warming?

- A. Cutting down use of fossil fuel
- B. Efficiently using energy
- C. Reduction in emission of greenhouse gases
- D. Causing deforestation



Q3 General Abilities

If you want the primary recipient to see that others have received a copy of an email, you should enter their email addresses in the _____ field.

- A. To
- B. Subject
- C. Bcc
- D. Cc



Q4 General Abilities

What does PCB stand for?

- A. Processing Circuit Board
- B. Peripheral Connection Bus
- C. Printed Circuit Board
- D. Primary Control Board



Q5 General Abilities

Inertia depends on which property of an object?

- A. Velocity
- B. Shape
- C. Acceleration
- D. Mass



Q6 General Abilities

The primary agent that helps in the decomposition of biodegradable matter in domestic sewage is _____.

- A. chloride
- B. nitrate
- C. bacterium
- D. phosphate



Q7 General Abilities

What was the main objective of the Extremists during the Indian National Movement?

- A. To expand the legislative councils
- B. To bring social reforms
- C. To promote British goods in India
- D. To attain complete independence (Swaraj)



Q8 General Abilities

What is the maximum number of Ministers allowed in the Council of Ministers, including the Prime Minister, as per the 91st Amendment Act?

- A. 15% of Lok Sabha strength
- B. 10% of Lok Sabha strength
- C. 12% of Lok Sabha strength
- D. 20% of Lok Sabha strength



Q9 General Abilities

If the absolute refractive index of a medium is less than 1, it means _____.

- A. light travels slower in that medium than in vacuum
- B. the medium is a perfect reflector
- C. the medium absorbs all light
- D. light travels faster in that medium than in vacuum



Q10 General Abilities

The practice of Jhum cultivation is prevalent in the _____.

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



Q11 General Abilities

According to the Tendulkar methodology, what was the estimated percentage of people below the poverty line in rural areas in 2011-12?

- A. 27.5%
- B. 20%
- C. 15.5%
- D. 25.7%

**Q12 General Abilities**

Which of the following correctly explains why clothes dry faster on a windy day?

- A. Wind reduces the surface area of the clothes.
- B. Wind removes the water vapour from the clothes' surroundings.
- C. Wind decreases the temperature of the water molecules.
- D. Wind increases the humidity around the clothes.

**Q13 General Abilities**

What is the net force acting on an object if balanced forces are applied?

- A. Equal to the mass of the object
- B. Infinite
- C. Equal to acceleration
- D. Zero

**Q14 General Abilities**

What is the purpose of the Collation option in the Print settings?

- A. To adjust the page orientation
- B. To select a custom print range
- C. To print all the pages of a document as a set
- D. To change the printer selection

**Q15 General Abilities**

Why does a bee sting cause pain and irritation?

- A. The sting injects a mild sugar solution.
- B. The sting contains a strong base.
- C. The sting injects methanoic acid.
- D. The sting releases carbon dioxide gas.

**Q16 General Abilities**

Which state of matter shows the highest expansion when temperature is increased?

- A. Plasma
- B. Gases
- C. Solids
- D. Liquids

**Q17 General Abilities**

In which of the following regions the Himalayas has the greatest width?

- A. Kashmir
- B. Sikkim
- C. Arunachal Pradesh
- D. Himachal Pradesh

**Q18 General Abilities**

Which of the following is NOT a component of a CPU?

- A. Cache Memory
- B. Control Unit (CU)
- C. Arithmetic Logic Unit (ALU)
- D. Hard Disk

**Q19 General Abilities**

Who among the following inaugurated the 38th National Games held in Dehradun in January 2025?

- A. Anurag Thakur
- B. Pushkar Singh Dhami
- C. Droupadi Murmu
- D. Narendra Modi

**Q20 General Abilities**

What is the primary function of the F4 key in MS Excel when editing a cell reference in a formula?

- A. Repeats the last action
- B. Opens the Find and Replace dialog
- C. Refreshes the worksheet
- D. Toggles between absolute and relative references



Q21 General Abilities

Which of the following is NOT toxic to non-target organisms in the soil?

A. Organic fertilisers



B. Herbicides

C. Pesticides

D. Fungicides

Q22 General Abilities

What happens when a computer is put into Sleep mode?

A. It keeps the session active in RAM while using minimal power.



B. It shuts down completely.

C. It stores data on the hard drive and powers off.

D. It restarts automatically after a few minutes.

Q23 General Abilities

Which defect of vision occurs due to the weakening of ciliary muscles with age?

A. Hypermetropia

B. Myopia

C. Presbyopia



D. Astigmatism

Q24 General Abilities

What happens when an acid reacts with a metal oxide?

A. A salt and hydrogen gas are formed.

B. Only salt is formed.

C. Only water is formed.

D. A salt and water are formed.

**Q25 General Abilities**

Which official in the Gupta administration was responsible for peace and war matters?

A. Mahapratihara

B. Mahadandanayaka

C. Sandhi-Vigrahika



D. Vishayapati

Q26 General Abilities

Which of the following correctly represents the chemical formula of a compound formed by aluminium and sulphate ions?

A. $\text{Al}_2(\text{SO}_4)_3$



B. $\text{Al}_3(\text{SO}_4)_2$

C. Al_2SO_4

D. $\text{Al}(\text{SO}_4)_3$

Q27 General Abilities

What is the shortcut key to start a slideshow from the beginning?

A. Ctrl + P

B. Shift + F5

C. F5



D. Alt + Tab

Q28 General Abilities

Which of the following is a characteristic difference between colloids and true solutions?

A. True solutions show the Tyndall effect, but colloids do not.

B. True solutions exhibit Brownian motion, but colloids do not.

C. True solutions have a single-phase system, whereas colloids have a two-phase system.



D. True solutions have visible solute particles, whereas colloids have invisible dispersed particles.

Q29 General Abilities

The main use of chlorofluorocarbons is in _____.

A. vehicles

B. refrigerants



C. smog

D. chimneys

Q30 General Abilities

The Industrial Policy Resolution of 1956 categorised industries into how many groups?

A. Nine

B. Seven

C. Three



D. Five



Q31 General Abilities

The energy that is derived from the use of radioactive isotopes is termed as _____.

- A. geothermal energy
- B. nuclear energy ✓
- C. thermal energy
- D. solar energy

Q32 General Abilities

In an electric circuit, what is the correct way to connect an ammeter?

- A. In parallel with the component
- B. In either series or parallel
- C. In series with the component ✓
- D. In parallel with the source

Q33 General Abilities

The fine powder that is obtained from the modified and recycled form of plastic is called _____.

- A. polyethylene
- B. polyblend ✓
- C. polythene
- D. polystyrene

Q34 General Abilities

If an object is dropped from rest, what will be its velocity after 15 seconds? ($g = 9.8 \text{ m/s}^2$)

- A. 147 m/s ✓
- B. 149 m/s
- C. 145 m/s
- D. 143 m/s

Q35 General Abilities

Identify the correct formula for the compound formed between Mg^{2+} and PO_4^{3-} ions.

- A. $\text{Mg}_2(\text{PO}_4)_3$
- B. MgPO_4
- C. $\text{Mg}(\text{PO}_4)_3$
- D. $\text{Mg}_3(\text{PO}_4)_2$ ✓

Q36 General Abilities

The glass panel used in greenhouses is known to retain _____.

- A. rainfall
- B. heat ✓
- C. pH
- D. humidity

Q37 General Abilities

Dr. BR Ambedkar described which part of the Indian Constitution as its 'novel features', while Granville Austin referred to it as the 'Conscience of the Constitution'?

- A. Preamble
- B. Directive Principles of State Policy ✓
- C. Fundamental Duties
- D. Fundamental Rights

Q38 General Abilities

Which of the following cities hosted the inaugural Kho Kho World Cup in January 2025?

- A. Chennai
- B. New Delhi ✓
- C. Kolkata
- D. Mumbai

Q39 General Abilities

The Millennium Development Goals (MDGs) aimed to reduce extreme poverty by which year?

- A. 2014
- B. 2008
- C. 2005
- D. 2015 ✓

Q40 General Abilities

Which of the following is NOT a source of release of smokestacks?

- A. Thermal power plants
- B. Smelters
- C. Rivers ✓
- D. Industries



Q41 General Abilities

The Rudra Veena is predominantly associated with which genre of Hindustani music?

- A. Ghazal
- B. Thumri
- C. Khayal
- D. Dhrupad

**Q42 General Abilities**

Which Article provides Ministers the right to participate in parliamentary proceedings but without voting rights?

- A. Article 53
- B. Article 77
- C. Article 78
- D. Article 88

**Q43 General Abilities**

The maximum sound is generated _____.

- A. from vehicular emissions
- B. from house chimneys
- C. from industrial smoke
- D. by the take off of a jet plane

**Q44 General Abilities**

What is the first step to securing ones smartphone or tablet?

- A. Installing more apps
- B. Using only free Wi-Fi networks
- C. Turning off mobile data
- D. Setting a password/PIN-protected lock screen

**Q45 General Abilities**

What is India's global military ranking in the 2025 Global Firepower (GFP) index?

- A. 5th
- B. 4th
- C. 3rd
- D. 2nd

**Q46 General Abilities**

Which of the following states is NOT covered under the Atal Bhujal Yojana?

- A. Uttar Pradesh
- B. Maharashtra
- C. Rajasthan
- D. Jharkhand

**Q47 General Abilities**

Which of the following companies announced plans in February 2025 to construct the world's longest undersea cable, aiming to enhance internet connectivity across five continents, with landing points in India?

- A. Google
- B. Microsoft
- C. Amazon
- D. Meta

**Q48 General Abilities**

The phenomenon of multiple echoes due to repeated reflections is called _____.

- A. refraction
- B. diffraction
- C. reverberation
- D. resonance

**Q49 General Abilities**

What is the primary purpose of using a firewall on a Personal Computer?

- A. To block unauthorised access and protect the computer
- B. To speed up internet connectivity
- C. To increase storage space
- D. To clean up temporary files

**Q50 General Abilities**

Which of the following is the correct way to insert a new column in a spreadsheet?

- A. Go to File > New > Column.
- B. Use Ctrl + Z to insert a column.
- C. Press Ctrl + X and then Insert.
- D. Go to Home > Insert > Insert Sheet Columns.



General Abilities

50 Questions • Answer Key

Q1 General Abilities

Which of the following elements has an atomic number of 8?

- A. Hydrogen
- B. Nitrogen
- C. Oxygen
- D. Carbon



Q2 General Abilities

The President has the power to dissolve which house of Parliament?

- A. Lok Sabha only
- B. Rajya Sabha only
- C. Legislative Assembly
- D. Both Rajya Sabha and Lok Sabha



Q3 General Abilities

Which of the following options is NOT a greenhouse gas?

- A. Methane
- B. Carbon dioxide
- C. Nitrous oxide
- D. Carbon tetrachloride



Q4 General Abilities

Radiations that are emitted from nuclear wastes are known to cause _____ at a high rate.

- A. syndromes
- B. mutations
- C. diseases
- D. emotional defects



Q5 General Abilities

An object is placed 15 cm in front of a convex lens of focal length 25 cm. The image distance will be _____.

- A. 17.5 cm
- B. -10.0 cm
- C. -9.37 cm
- D. -37.5 cm



Q6 General Abilities

Electricity production is categorised under which of the following economic sectors?

- A. Tertiary sector
- B. Quaternary sector
- C. Secondary sector
- D. Primary sector



Q7 General Abilities

The wavelength of ultraviolet radiations which is most powerful and causes damage to the DNA is _____.

- A. UV-C
- B. UV-B
- C. UV-D
- D. UV-A



Q8 General Abilities

What happens when you click on the 'Forward' button in an email?

- A. A blank email opens.
- B. The original message is copied into a new email draft.
- C. The email is automatically sent to all contacts.
- D. The email is permanently deleted.



Q9 General Abilities

In January 2025, India launched the NVS-02 satellite to strengthen which of the following navigation systems?

- A. Galileo
- B. Global Navigation Satellite System (GLONASS)
- C. Navigation with Indian Constellation (NavIC)
- D. Global Positioning System (GPS)



Q10 General Abilities

Who among the following developed the notation system for Hindustani classical music?

- A. Ustad Amjad Ali Khan
- B. Ustad Bismillah Khan
- C. Pandit Vishnu Narayan Bhatkhande
- D. Pandit Ravi Shankar



Q11 General Abilities

What is the general orientation of the Himalayan ranges in the northwestern part of India?

- A. East-South
- B. South-North
- C. Northwest to Southeast ✓
- D. Northeast to Southwest

Q12 General Abilities

A metal wire is stretched, but it does not break easily. This property is known as:

- A. brittleness
- B. ductility ✓
- C. malleability
- D. hardness

Q13 General Abilities

The power to issue an ordinance when Parliament is NOT in session is given to the President under which Article?

- A. Article 72
- B. Article 123 ✓
- C. Article 356
- D. Article 110

Q14 General Abilities

In an aquatic ecosystem, the phenomenon of biomagnification can best be studied in the case of _____.

- A. phosphates
- B. chlorine
- C. organochlorine
- D. DDT ✓

Q15 General Abilities

Which function key is used to move text or graphics in a document?

- A. F2 ✓
- B. F12
- C. F1
- D. F5

Q16 General Abilities

Which German optical technology firm inaugurated its first Global Capability Centre in Bengaluru in November 2024, with plans to double its workforce within three years?

- A. Leica
- B. Jenoptik
- C. Carl Zeiss AG ✓
- D. Schneider Kreuznach

Q17 General Abilities

Due to global warming, the temperature of the earth has increased by _____

- A. 0.8°C
- B. 0.7°C
- C. 0.5°C
- D. 0.6°C ✓

Q18 General Abilities

Who among the following established the Bengal Chemical Swadeshi Stores?

- A. Dadabhai Naoroji
- B. BG Tilak
- C. Surendranath Banerjee
- D. Acharya PC Ray ✓

Q19 General Abilities

Which of the following is NOT toxic to non-target organisms in the soil?

- A. Herbicides
- B. Fungicides
- C. Organic fertilisers ✓
- D. Pesticides

Q20 General Abilities

The kinetic energy of an object is derived using which of the following equations of motion?

- A. $v = u + at$
- B. $a = (v - u) / t$
- C. $v^2 - u^2 = 2as$ ✓
- D. $s = ut + \frac{1}{2}at^2$



Q21 General Abilities

Which formula should be entered in cell C2 to multiply the values of cells A2 and B2 in Excel?

A. =A2*B2



B. =MULTIPLY(A2,B2)

C. =A2-B2

D. =A2+B2

Q22 General Abilities

Which type of RAM is faster and DOES NOT require refreshing?

A. SRAM



B. Flash Memory

C. ROM

D. DRAM

Q23 General Abilities

Which of the following MS Excel functions is used to convert a numeric value into a text with a specific format?

A. NUMBERTOTEXT()

B. TEXT()



C. FORMAT()

D. VALUE()

Q24 General Abilities

Why do covalent compounds generally have low melting and boiling points?

A. They have strong electrostatic forces.

B. They contain metallic bonds.

C. They have a rigid lattice structure.

D. They have weak intermolecular forces.

**Q25 General Abilities**

Which of the following will increase the heat produced by a heating element?

A. Decreasing the applied voltage

B. Using a material with high conductivity

C. Using a wire of lower resistance

D. Increasing the current flowing through the wire

**Q26 General Abilities**

Which of the following was NOT an artisan guild during the Mauryan period?

A. Bankers and Merchants

B. Carpenters

C. Astrologers



D. Potters

Q27 General Abilities

The atomic mass of sulphur is 32 u, and sulphur exists as S₈ molecules. What is the molecular mass of sulphur?

A. 64 u

B. 256 u



C. 32 u

D. 128 u

Q28 General Abilities

Which of the following is NOT a source of collection of municipal solid waste?

A. Radioactive waste



B. Waste from schools

C. Waste from hospitals

D. Waste from homes

Q29 General Abilities

For the protection and improvement of the environmental quality, the Environment Protection Act came into force in the year _____.

A. 1972

B. 1984

C. 1992

D. 1986

**Q30 General Abilities**

A solution is prepared by dissolving 40 g of NaCl in 200 g of water. What is the mass per cent of NaCl in the solution?

A. 20%

B. 16.67%



C. 45%

D. 25%



Q31 General Abilities

Which of the following bridges is constructed over the Brahmaputra River in India?

- A. Mahatma Gandhi Setu
- B. Dhola-Sadiya Bridge ✓
- C. Howrah Bridge
- D. Pamban Bridge

Q32 General Abilities

A ball of mass 50 grams is moving with a velocity of 15 m/s. What is its kinetic energy?

- A. 7.500 J
- B. 3.750 J
- C. 1.875 J
- D. 5.625 J ✓

Q33 General Abilities

What is the primary function of a firewall tool in a computer network?

- A. To speed up internet connections
- B. To store data securely
- C. To monitor and control incoming and outgoing network traffic ✓
- D. To detect and remove viruses

Q34 General Abilities

What does LAN stand for?

- A. Limited Access Node
- B. Local Area Network ✓
- C. Linked Access Network
- D. Large Area Network

Q35 General Abilities

Who is known as the leader of the Green Revolution in India?

- A. Tribhuvandas Kishibhai Patel
- B. Dr. Rajendra Prasad
- C. C Subramaniam
- D. Prof. MS Swaminathan ✓

Q36 General Abilities

What is the primary function of a computer firewall?

- A. To speed up internet connectivity
- B. To store user passwords securely
- C. To prevent unauthorised access to a private network ✓
- D. To detect and remove computer viruses

Q37 General Abilities

Which of the following correctly differentiates mixtures and compounds?

Feature

- A. Option C (Properties) is correct
- B. Option B (Composition) is correct
- C. Option D (Formation) is correct
- D. Option A (Separation) is correct ✓

Q38 General Abilities

Which operating system is known for its open-source nature and community-driven development for desktops and laptops?

- A. iOS
- B. Windows
- C. Linux ✓
- D. macOS

Q39 General Abilities

A concave lens has a focal length of -2 cm. What is its power?

- A. -50 D ✓
- B. 0.5 D
- C. -0.5 D
- D. 25 D

Q40 General Abilities

A sound wave with a low frequency will have _____.

- A. a high pitch
- B. a low pitch ✓
- C. a short wavelength
- D. a low amplitude



Q41 General Abilities

In which of the following events did Deepthi Jeevanji set a world record at the 2024 World Para Athletics Championships?

- A. 200 metres T20
- B. 100 metres T20
- C. 600 metres T20
- D. 400 metres T20

**Q42 General Abilities**

Which country proposed the idea of holding a United Nations conference on human interactions with the environment in 1968?

- A. Canada
- B. Sweden
- C. United States
- D. France

**Q43 General Abilities**

Who among the following referred to the Directive Principles as the 'life-giving provisions' of the Constitution of India?

- A. LM Singhvi
- B. HM Seervai
- C. Ivor Jennings
- D. BR Ambedkar

**Q44 General Abilities**

A car moving at a constant speed of 123 km/hr along a straight road is an example of _____.

- A. non-uniform motion
- B. random motion
- C. rotational motion
- D. uniform motion

**Q45 General Abilities**

An alloy is considered a homogeneous mixture because:

- A. it contains two or more phases
- B. its components are chemically combined in fixed proportions
- C. its components can be separated by filtration
- D. it exhibits uniform composition throughout

**Q46 General Abilities**

Where can one find the option to change a PowerPoint template?

- A. View → Slide Master
- B. Insert → Themes
- C. Design → Themes
- D. Home → Layout

**Q47 General Abilities**

What happens to the pH of pure water when a few drops of lemon juice are added?

- A. The pH increases
- B. The pH becomes neutral
- C. The pH decreases
- D. The pH remains the same

**Q48 General Abilities**

Who among the following Indian female cricketers won the Best International Cricketer Award (Women) at the BCCI Naman Awards 2025?

- A. Smriti Mandhana
- B. Mithali Raj
- C. Jhulan Goswami
- D. Harmanpreet Kaur

**Q49 General Abilities**

The people of _____ were famously involved in execution of the Chipko movement.

- A. Assam
- B. Garhwal Himalayas
- C. Gujarat
- D. Delhi

**Q50 General Abilities**

The main reason for which we are dependent on air is our _____.

- A. digestion
- B. excretion
- C. respiration
- D. osmoregulation



General Abilities

50 Questions • Answer Key

Q1 General Abilities

The area termed as the ozone hole is known to mainly develop over _____.

A. Antartica



B. India

C. Africa

D. America

Q2 General Abilities

Which of the following economic estimators provided estimates of India's national and per capita income during the colonial period?

A. John Maynard Keynes

B. Adam Smith

C. VKRV Rao



D. Karl Marx

Q3 General Abilities

What is the typical range of a Local Area Network (LAN)?

A. More than 50 km

B. Up to 1 km



C. Up to 5 km

D. Up to 10 km

Q4 General Abilities

Which mouse pointer appears when adjusting column width / cell width in a table?

A. ↔ (Horizontal double-headed arrow)



B. I-beam (Text cursor)

C. ↑↓ (Vertical double-headed arrow)

D. Hand cursor

Q5 General Abilities

Which of the following is a zero waste procedure?

A. Integrated organic farming



B. Pest management

C. Organic farming

D. Inorganic farming

Q6 General Abilities

What is the primary goal of application security?

A. To increase the execution speed of applications

B. To protect applications from security threats by identifying and fixing vulnerabilities



C. To reduce the size of application files

D. To enhance the graphical user interface of applications

Q7 General Abilities

Which of the following is NOT an example of an agrochemical?

A. Fungicides

B. Biogas



C. Pesticides

D. Herbicides

Q8 General Abilities

What is the function of the Linux Shell?

A. To directly manage hardware resources

B. To execute user commands and act as an interface between the user and the kernel



C. To store user data

D. To create and delete partitions

Q9 General Abilities

The melting of snow and ice caps from the polar regions is responsible for _____.

A. the decline in sea levels

B. condensation

C. the rise in sea levels



D. rainfall

Q10 General Abilities

The Indian Desert lies towards the western margins of which mountain range?

A. Satpura Hills

B. Aravali Hills



C. Vindhya Hills

D. Western Ghats



Q11 General Abilities

Which of the following is an example of a chemical change?

- A. Tearing of paper
- B. Dissolution of sugar in water
- C. Freezing of water
- D. Curdling of milk

**Q12 General Abilities**

An object is placed 25 cm in front of a convex lens with a focal length of 15 cm. What is the magnification produced by the lens?

- A. $M = 2.5$
- B. $M = 1.5$
- C. $M = -2.5$
- D. $M = -1.5$

**Q13 General Abilities**

Which of the following is a string instrument?

- A. Shehnai
- B. Flute
- C. Tabla
- D. Sitar

**Q14 General Abilities**

The loss of forests, which is remarkably seen in the tropical areas of India, is around _____.

- A. 30%
- B. 40%
- C. 10%
- D. 20%

**Q15 General Abilities**

The Railways Employment of Members of the Armed Forces Act was passed in which of the following years?

- A. 1957
- B. 1965
- C. 1962
- D. 1951

**Q16 General Abilities**

Which of the following is an example of database management software?

- A. PowerPoint
- B. Notepad
- C. MS Paint
- D. Microsoft Access

**Q17 General Abilities**

Two objects of masses 80 kg and 250 kg are placed 200 m apart. What is the gravitational force between them? ($G = 6.7 \times 10^{-11} \text{ N}\cdot\text{m}^2/\text{kg}^2$)

- A. $5.75 \times 10^{-11} \text{ N}$
- B. $4.50 \times 10^{-11} \text{ N}$
- C. $3.35 \times 10^{-11} \text{ N}$
- D. $6.35 \times 10^{-11} \text{ N}$

**Q18 General Abilities**

The greenhouse gas that is known to contribute the least amount to global warming is _____.

- A. methane
- B. carbon dioxide
- C. CFCs
- D. nitrous oxide

**Q19 General Abilities**

_____ is the most efficient method used for the disposal of hospital-generated waste.

- A. Incinerator
- B. Furnace
- C. Open dumps
- D. Sanitary landfills

**Q20 General Abilities**

The effect of particulate matter which is a common air pollutant is maximally seen on the _____.

- A. liver
- B. intestines
- C. kidneys
- D. lungs



Q21 General Abilities

Which of the following metals is placed between aluminium and zinc in the reactivity series?

- A. Copper
- B. Carbon
- C. Iron
- D. Magnesium ✓

Q22 General Abilities

The method of storage of nuclear wastes is to be done in _____.

- A. bottles
- B. dustbins
- C. open containers
- D. shielded containers ✓

Q23 General Abilities

Who among the following is NOT appointed by the President of India?

- A. Comptroller and Auditor General
- B. Governors of States
- C. Vice President ✓
- D. Chief Election Commissioner

Q24 General Abilities

Which of the following is an effective way to prevent rancidity in packaged food?

- A. Keeping it in direct sunlight
- B. Storing in a warm place
- C. Increasing moisture content
- D. Adding antioxidants ✓

Q25 General Abilities

What happens when you use the 'Sort A to Z' option on a column containing text?

- A. The text remains unchanged.
- B. The text is sorted from Z to A.
- C. The text is converted into numbers.
- D. The text is sorted alphabetically from A to Z. ✓

Q26 General Abilities

Which of the following is NOT a file management task?

- A. Browsing the internet ✓
- B. Deleting files
- C. Renaming files
- D. Creating files

Q27 General Abilities

Which property of solids allows them to be compressed the least compared to liquids and gases?

- A. High kinetic energy of particles
- B. High intermolecular spaces
- C. Strong intermolecular forces and close packing of particles ✓
- D. The ability to diffuse into other solids

Q28 General Abilities

Which of the following best describes a heterogeneous mixture?

- A. It contains only one phase.
- B. It has a uniform composition.
- C. The composition varies throughout the mixture. ✓
- D. The components cannot be separated.

Q29 General Abilities

The Montreal Protocol came into force in the year _____.

- A. 1992
- B. 1989 ✓
- C. 1986
- D. 1990

Q30 General Abilities

The Punjab Plain is formed by which river system?

- A. Indus and its tributaries ✓
- B. Narmada and its tributaries
- C. Brahmaputra and its tributaries
- D. Ganga and its tributaries



Q31 General Abilities

Which dynasty was overthrown by Chandragupta Maurya to establish the Mauryan Empire?

- A. Gupta Dynasty
- B. Nanda Dynasty ✓
- C. Shunga Dynasty
- D. Kushan Dynasty

Q32 General Abilities

In an experiment, 25 g of reactant A reacts with 35 g of reactant B to form 50 g of product C and some amount of product D. What is the mass of product D?

- A. 35 g
- B. 60 g
- C. 10 g ✓
- D. 25 g

Q33 General Abilities

What are the sand dunes commonly found in the Indian Desert called?

- A. Moraines
- B. Loess
- C. Barchans ✓
- D. Cirques

Q34 General Abilities

As per Article 78, it is the duty of the Prime Minister to communicate all decisions of the Council of Ministers to whom?

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

Q35 General Abilities

A student calculates the formula unit mass of calcium fluoride (CaF_2). If the atomic masses of Ca and F are 40 u and 19 u, respectively, what is the correct formula unit mass?

- A. 97 u
- B. 100 u
- C. 59 u
- D. 78 u ✓

Q36 General Abilities

Which of the following is an example of a WAN?

- A. A Bluetooth connection between a phone and a laptop
- B. The internet ✓
- C. A university campus network
- D. A home Wi-Fi network

Q37 General Abilities

Which statement correctly explains why liquids can flow?

- A. Liquids have no intermolecular forces.
- B. Liquids do not have kinetic energy.
- C. Liquids have loosely packed molecules that slide past each other. ✓
- D. Liquid molecules move randomly without any restriction.

Q38 General Abilities

In December 2024, Jasprit Bumrah became the fastest Indian bowler to reach 200 Test wickets during which of the following series/tournament?

- A. India vs England Test Series
- B. Asia Cup
- C. India vs New Zealand Test Series
- D. Border-Gavaskar Trophy ✓

Q39 General Abilities

Who among the following won the gold medal in the women's high jump event at the National Games in February 2025?

- A. Swapna Barman
- B. Abhinaya Shetty
- C. Pooja Singh ✓
- D. Vithya Ramraj

Q40 General Abilities

The speed of a wave is given by which of the following formulas?

- A. Speed = Time $\times$ Frequency
- B. Speed = Amplitude $\times$ Wavelength
- C. Speed = Frequency $\times$ Wavelength ✓
- D. Speed = Frequency $\times$ Amplitude



Q41 General Abilities

Under the Delhi Sultanate what was the name of the state laws that grew under the monarchy, even if they violated the Shari'at?

- A. Farman
- B. Iqta
- C. Fatwas
- D. Zawabit

**Q42 General Abilities**

If the area of contact increases while keeping the thrust constant, the pressure will _____.

- A. first increase, then decrease
- B. increase
- C. decrease
- D. remain the same

**Q43 General Abilities**

If the mass of an object is 74.5 kg, what is its approximate weight on Earth? (Take $g = 9.8 \text{ m/s}^2$)

- A. 7.6 N
- B. 730 N
- C. 74.5 N
- D. 447 N

**Q44 General Abilities**

Where is the magnetic field strength maximum around a magnet?

- A. At infinity
- B. At the centre of the magnet
- C. At the poles of the magnet
- D. Equidistant from the poles

**Q45 General Abilities**

According to the Tendulkar methodology, what was the estimated national poverty line for rural areas in 2011-12?

- A. ₹816 per month
- B. ₹1,200 per month
- C. ₹512 per month
- D. ₹1,000 per month

**Q46 General Abilities**

If three resistors of 15Ω , 35Ω and 50Ω are connected in series to a 25-V battery, what is the current flowing in the circuit?

- A. 0.25 A
- B. 1.5 A
- C. 4 A
- D. 2.88 A

**Q47 General Abilities**

What is the purpose of the 'BCC' field in an email?

- A. It allows recipients to see each others' addresses.
- B. It deletes an email after it is read.
- C. It hides recipients from each other.
- D. It marks an email as urgent.

**Q48 General Abilities**

Which of the following is NOT an example of system software?

- A. macOS
- B. Windows 10
- C. Microsoft Word
- D. Linux

**Q49 General Abilities**

In September 2024, which of the following Indian institutions was designated as the Thematic Hub for Quantum Computing under the National Quantum Mission?

- A. Indian Institute of Science Bengaluru
- B. Indian Institute of Technology Gandhinagar
- C. Indian Institute of Technology Kanpur
- D. Indian Institute of Technology Madras

**Q50 General Abilities**

When were the 38th National Games held in Uttarakhand?

- A. January 15 - 30, 2025
- B. February 1 - 20, 2025
- C. January 28 - February 14, 2025
- D. February 10 - 25, 2025

