



RRB JE 2024 CBT-2 CMA

Chemical & Metallurgical Assistant (CMA) · CEN 03/2024 · CBT-2 · General Abilities · Question Paper

English

Complete Paper · 50 Questions · General Abilities Section · Official Answer Key

About this Compilation

This booklet contains the complete question paper of the **RRB JE 2024 CBT-2 (Chemical & Metallurgical Assistant (CMA))** 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

General Abilities

50 Questions • Answer Key

Q1 General Abilities

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

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



Q2 General Abilities

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

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



Q3 General Abilities

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

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



Q4 General Abilities

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

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



Q5 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. VALUE()
- C. TEXT()
- D. FORMAT()



Q6 General Abilities

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

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



Q7 General Abilities

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

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



Q8 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



Q9 General Abilities

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

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



Q10 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. 5.625 J
- C. 3.750 J
- D. 1.875 J



Q11 General Abilities

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

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

Q12 General Abilities

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

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

Q13 General Abilities

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

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

Q14 General Abilities

What is the primary function of a computer firewall?

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

Q15 General Abilities

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

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

Q16 General Abilities

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

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

Q17 General Abilities

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

- A. Potters
- B. Carpenters
- C. Astrologers ✓
- D. Bankers and Merchants

Q18 General Abilities

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

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

Q19 General Abilities

Which of the following correctly differentiates mixtures and compounds?

Feature	Mixture	Compound
A) Separation	Can be separated by physical methods	Requires chemical methods
B) Composition	Fixed ratio	Variable ratio
C) Properties	Always the same as constituents	Different from constituents
D) Formation	By chemical reaction	By simple mixing

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



Q20 General Abilities

An alloy is considered a homogeneous mixture because:

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

Q21 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. Schneider Kreuznach
- B. Carl Zeiss AG ✓
- C. Leica
- D. Jenoptik

Q22 General Abilities

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

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

Q23 General Abilities

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

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

Q24 General Abilities

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

- A. F12
- B. F1
- C. F2 ✓
- D. F5

Q25 General Abilities

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

- A. 1972
- B. 1986 ✓
- C. 1992
- D. 1984

Q26 General Abilities

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

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

Q27 General Abilities

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

- A. SRAM ✓
- B. DRAM
- C. Flash Memory
- D. ROM

Q28 General Abilities

Who among the following established the Bengal Chemical Swadeshi Stores?

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

Q29 General Abilities

The atomic mass of sulphur is 32 u, and sulphur exists as S_8 molecules. What is the molecular mass of sulphur?

- A. 256 u ✓
- B. 64 u
- C. 128 u
- D. 32 u



Q30 General Abilities

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

- A. Using a material with high conductivity
- B. Decreasing the applied voltage
- C. Increasing the current flowing through the wire ✓
- D. Using a wire of lower resistance

Q31 General Abilities

A sound wave with a low frequency will have _____.

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

Q32 General Abilities

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

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

Q33 General Abilities

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

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

Q34 General Abilities

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

- A. They have a rigid lattice structure.
- B. They have strong electrostatic forces.
- C. They have weak intermolecular forces. ✓
- D. They contain metallic bonds.

Q35 General Abilities

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

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

Q36 General Abilities

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

- A. Waste from homes
- B. Waste from schools
- C. Waste from hospitals
- D. Radioactive waste ✓

Q37 General Abilities

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

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

Q38 General Abilities

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

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

Q39 General Abilities

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

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



Q40 General Abilities

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

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

Q41 General Abilities

What does LAN stand for?

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

Q42 General Abilities

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

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

Q43 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. =A2*B2 ✓
- C. =MULTIPLY(A2,B2)
- D. =A2-B2

Q44 General Abilities

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

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

Q45 General Abilities

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

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

Q46 General Abilities

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

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

Q47 General Abilities

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

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

Q48 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. -9.37 cm
- B. -10.0 cm
- C. -37.5 cm ✓
- D. 17.5 cm

Q49 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. 45%
- B. 20%
- C. 16.67% ✓
- D. 25%



Q50 General Abilities

Which of the following options is NOT a greenhouse gas?

A. Nitrous oxide

B. Methane

C. Carbon tetrachloride



D. Carbon dioxide

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