रेलवे भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सीईएन - 04/2026 - जेई, डीएमएस, सीएमए - CEN - 04/2026 - JE, DMS, CMA

Test Date	27/10/2026
Test Time	9:00 AM - 10:30 AM
Subject / Exam Group	RRB JE DMS CMA CBT I

*** Note**
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.
2. Chosen option on the right of the question indicates the option selected by the candidate.

Section : **RRB JE DMS CMA CBT I**

Q.1 **Which habit should a mother avoid after childbirth to protect her health and her baby's health?**

Ans
✗ 1. Eating fruits
✗ 2. Gentle walking
✗ 3. Drinking more water
✓ 4. Consuming alcohol

Q.2 **A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.**

Question: Five people – Abeer, Charita, Dhruv, Eshika and Faris – are seated in a row facing north. Who is seated at the extreme right end?

Statements:
(I) There are exactly two people between Abeer and Eshika.
(II) Charita sits immediately to the left of Faris, and Dhruv sits to the left of Charita.

Ans
✗ 1. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question.
✗ 2. Data in statement II alone is sufficient to answer the question while data in statement I is not.
✓ 3. Data in both statements I and II together are NOT sufficient to answer the question.
✗ 4. Data in statement I alone is sufficient to answer the question while data in statement II is not.

Q.3 **14 is related to 115 following a certain logic. Following the same logic, 21 is related to 171. To which of the following is 26 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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans
✗ 1. 206
✗ 2. 218
✓ 3. 211
✗ 4. 201

Q.4 भारतीय संविधानाचा कोणता अनुच्छेद शिक्षणाच्या हक्काची हमी देतो?

Ans
- ✗ 1. अनुच्छेद 25
- ✗ 2. अनुच्छेद 16
- ✗ 3. अनुच्छेद 19
- ✓ 4. अनुच्छेद 21A

Q.5 खालीलपैकी कोणत्या जोड्या एकमेकांची समस्थानिके आहेत?

Ans
- ✗ 1. वेगवेगळे अणुअंक आणि वेगवेगळे वस्तुमानांक असलेले अणू
- ✗ 2. समान वस्तुमानांक परंतु भिन्न अणुअंक असलेले अणू
- ✓ 3. समान अणुअंक पण भिन्न वस्तुमानांक असलेले अणू
- ✗ 4. प्रोटॉनची संख्या वेगवेगळी आणि न्यूट्रॉनची संख्या समान असलेले अणू

Q.6 **A botanist uses a custom spring launcher to propel lightweight plant seeds horizontally onto a test field. If the launcher imparts a uniform acceleration of 7 m/s^2 to each 0.06 kg seed for 0.8 seconds, which of the following values best represents the average force exerted on a single seed during launch?**

Ans
- ✓ 1. 0.42 N
- ✗ 2. 0.34 N
- ✗ 3. 0.052 N
- ✗ 4. 0.13 N

Q.7 **Six friends, D, E, F, W, X and Z, live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it is numbered 2 and so on, till the topmost floor, which is numbered 6.**
F lives immediately above Z. Only two people live between W and Z and W lives one of the floors below Z. W lives on an odd-numbered floor. X lives immediately below D.
Who lives on the topmost floor?

Ans
- ✗ 1. Z
- ✓ 2. E
- ✗ 3. F
- ✗ 4. D

Q.8 **Refer to the following letter, symbol series and answer the question. Counting to be done from left to right only.**
(Left) L P M Q % Y G Q & W + @ % D K & Ω λ H K E (Right)
How many such symbols are there each of which are immediately preceded by a symbol and also immediately followed by a letter?

Ans
- ✗ 1. Three
- ✗ 2. One
- ✗ 3. Four
- ✓ 4. Two

Q.9 **One pipe can fill the tank in 27 minutes while another pipe can empty the tank in 36 minutes. If both the pipes are operated together on an empty tank, how long (in minutes) will it take to fill one-third of the tank?**

Ans
- ✓ 1. 36
- ✗ 2. 72
- ✗ 3. 18
- ✗ 4. 108

Q.10 **OPTQ is related to PQUR in a certain way based on the English alphabetical order. In the same way, LMQN is related to MNRO. To which of the following is ABFC related, following the same logic?**

Ans

✗ 1. BCFD

✓ 2. BCGD

✗ 3. BBFD

✗ 4. BDFH

Q.11 **वनस्पतीच्या वाढीमध्ये अग्र विभाजी ऊतिची मुख्य भूमिका काय आहे?**

Ans

✗ 1. फुले आणि फळांचे उत्पादन

✓ 2. खोड आणि मुळांच्या लांबीत होणारी वाढ

✗ 3. झाडावर साल तयार होणे

✗ 4. खोडाच्या घेरात वाढ

Q.12 **Two convex lenses are made of the same material. One lens is more strongly curved than the other. Which statement is correct about their focal lengths?**

Ans

✓ 1. The more strongly curved lens has a shorter focal length.

✗ 2. Both lenses have the same focal length because they are made of the same material.

✗ 3. The more strongly curved lens has a longer focal length.

✗ 4. The focal length depends only on the thickness of the lens.

Q.13 **कोणत्या मुघल सम्राटाने सर थॉमस रो याला मुघल प्रदेशात कारखाने स्थापन करण्याची आणि व्यापारी हक्क मिळवण्याची परवानगी देणारा फरमान (साम्राज्य आदेश) जारी केला होता?**

Ans

✓ 1. जहांगीर

✗ 2. शाहजहान

✗ 3. अकबर

✗ 4. औरंगजेब

Q.14 **भारताच्या 1991 च्या परकीय चलन सुधारणांचा एक प्रमुख परिणाम खालीलपैकी कोणता होता?**

Ans

✓ 1. सरकारी हस्तक्षेप कमी करणे आणि बाजाराला रुपयाचे मूल्य निश्चित करू देणे

✗ 2. सर्व वस्तूंवर आयात शुल्क एकसमानपणे प्रमाणित करणे

✗ 3. रुपयाचे मूल्य केवळ राखीव सुवर्ण निधीशी जोडणे

✗ 4. सर्व परकीय चलन व्यवहारांवरील सरकारी नियंत्रणावर बंदी घालणे

Q.15 **विविध मूलद्रव्यांच्या अणूंची तुलना करताना, प्रोटॉनच्या भूमिकेचे अचूक वर्णन कोणते विधान करते?**

Ans

✗ 1. बंध तयार करण्यात प्रोटॉन ज्या पद्धतीने भाग घेतात त्यावरून मूलद्रव्य ठरते.

✓ 2. केंद्रकातील प्रोटॉनची संख्या मूलद्रव्याची ओळख ठरवते.

✗ 3. प्रोटॉनचे वस्तुमान मूलद्रव्य ठरवते.

✗ 4. केंद्रकातील न्यूट्रॉनची संख्या मूलद्रव्याची ओळख ठरवते.

Q.16 **What should come in place of the question mark (?) in the given series?**

3 3 10 17 24 45 52 ?

Ans

✗ 1. 111

✓ 2. 101

✗ 3. 104

✗ 4. 110

Q.17 **The position(s) of how many letters will remain unchanged if each of the letter in the word JURYMAN is arranged in the English alphabetical order?**

Ans

✗ 1. Three

✓ 2. Zero

✗ 3. Two

✗ 4. One

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Q.18 **The volume of metal to make a hollow sphere is equal to the volume of the hollow part. Find the ratio of the outer radius to the inner radius of the sphere.**

Ans

✗ 1. $2\sqrt[3]{4}:3$

✗ 2. $2\sqrt[3]{2}:1$

✗ 3. $2\sqrt[3]{2}:3$

✓ 4. $\sqrt[3]{2}:1$

Q.19 **इ.स. 1639 मध्ये, इंग्लिश ईस्ट इंडिया कंपनीने खालीलपैकी कोणत्या साम्राज्याच्या प्रतिनिधीकडून जमीन भाडेतत्त्वावर घेऊन भारतात आपले पहिले प्रादेशिक वर्चस्व प्रस्थापित केले, जेथे फोर्ट सेंट जॉर्जची उभारणी करण्यात आली?**

Ans

✗ 1. विजापूर सल्तनत

✗ 2. मुघल साम्राज्य

✗ 3. मराठा साम्राज्य

✓ 4. विजयनगर साम्राज्य

Q.20 **A wall clock is marked at ₹2000. If a shopkeeper offers a 20% discount, followed by a further 10% discount on the reduced price, what is the final price paid for the wall clock?**

Ans

✗ 1. ₹1600

✓ 2. ₹1440

✗ 3. ₹1800

✗ 4. ₹1620

Q.21 **Ratan starts from point A and drives 35 km towards East. He then takes a right turn and drives 56 km. He takes a final left turn and drives 19 km and stops at point B. Dinesh starts from point P, which is 99 km East of Point A, and drives 15 km towards West. He then takes a left turn and drives 56 km. He takes a final right turn and drives 25 km and stops at Point Q. What is the shortest distance between Point Q and Point B? (All turns are 90-degree turns only.)**

Ans

✓ 1. 5 km

✗ 2. 7 km

✗ 3. 2 km

✗ 4. 4 km

Q.22 If $7a^2 + \frac{7}{a^2} = 28$, then what is the value of $3a^4 + \frac{3}{a^4} + 9$?

Ans

✓ 1. 51

✗ 2. 81

✗ 3. 35

✗ 4. 42

Q.23 **'होमो सेपियन्स' या द्विपदी नामातील कोणता भाग प्रजातीचे प्रतिनिधित्व करतो?**

Ans

✗ 1. सेपियन्स

✗ 2. जेनस सेपियन्स

✗ 3. होमो जाती

✓ 4. होमो

Q.24 **In this question, a group of numbers/symbols is coded using letter codes as per the codes given below and the conditions which follow. The correct combination of codes following the conditions is your answer. If none of the conditions follow, then the codes for the respective number/symbol are to be followed directly as given in the table.**

Number/Symbol	6	@	1	#	8	%	3	&	5	$	2	+	9	4
Code	Q	M	H	T	A	P	K	F	U	R	D	W	L	B

Conditions –
(i) If the first element is a symbol and the third element is a number, interchange their codes.
(ii) If the middle element is a symbol, code the second element as ©.
(iii) If the last element is a symbol, replace the first code with the last code.

What will be the code for the following group?
3 8 % 2 9

Ans
✗ 1. KAPDL
✓ 2. K©PDL
✗ 3. KAPDB
✗ 4. A©PDL

Q.25 **Each vowel in the word CARPENTRY is changed to the letter immediately following it in the English alphabetical order, and each consonant is changed to the second letter preceding it in the English alphabetical order. Which of the following letters will appear exactly twice in the group of letters thus formed?**

Ans
✗ 1. R
✓ 2. P
✗ 3. N
✗ 4. F

Q.26 **अणूचा वस्तुमानांक कसा ठरवला जातो, याचे अचूक वर्णन कोणते विधान करते?**

Ans
✗ 1. ही केवळ केंद्रकातील प्रोटॉन्सची संख्या आहे.
✓ 2. ही केंद्रकातील प्रोटॉन्स आणि न्यूट्रॉन्सची एकूण संख्या आहे.
✗ 3. ही अणूतील इलेक्ट्रॉन्स आणि प्रोटॉन्सची एकूण संख्या आहे.
✗ 4. हा प्रोटॉन्स आणि न्यूट्रॉन्सच्या संख्येमधील फरक आहे.

Q.27 **Which of these is equivalent to :** $\frac{2\sin x(1-\cos^2 x)}{\sec^3 x}$ **?**

Ans
✗ 1. $2\sin^3 x \cot x$
✓ 2. $2\sin^3 x \cos^3 x$
✗ 3. $2\operatorname{cosec}^3 x \cot^3 x$
✗ 4. $2\sin^3 x \sec^3 x$

Q.28 **A student scored 84 in a subject with a weightage of 3, scored 72 in another subject with a weightage of 2 and 96 in another subject with a weightage of 4. Calculate the weighted arithmetic mean. (Round off your answer to two places of decimal).**

Ans
✗ 1. 85.18
✗ 2. 87.28
✓ 3. 86.67
✗ 4. 88.54

Q.29 **How is sodium hydroxide (NaOH) prepared on an industrial scale?**

Ans
✗ 1. By heating sodium chloride with oxygen
✗ 2. By heating sodium carbonate with water
✗ 3. By reacting sodium with water directly
✓ 4. By the electrolysis of sodium chloride solution

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Q.30 **A technician in a spacecraft repairs a loose panel by pushing it toward the wall without touching any other object. The panel moves in one direction, and the technician drifts in the opposite direction. Which explanation best describes this observation?**

Ans

✗ 1. The technician moves more than the panel because the technician has greater mass

✗ 2. The technician moves due to air resistance inside the spacecraft, not because of the push

✓ 3. The technician and panel experience equal forces in opposite directions, causing both to move apart

✗ 4. The panel moves because the technician applies a force, but the technician remains still

Q.31 **Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?**

PET 15 QHP 30 RKL 60 SNH 120 ?

Ans

✗ 1. SPD 260

✗ 2. TPD 260

✗ 3. SQD 240

✓ 4. TQD 240

Q.32 **भूशास्त्रीय दृष्ट्या, अंदमान आणि निकोबार बेटे ही कोणत्या पर्वतरांगेचा दक्षिणेकडील विस्तार मानली जातात?**

Ans

✗ 1. विंध्य पर्वतरांग

✗ 2. पश्चिम घाट

✗ 3. अरवली पर्वतरांग

✓ 4. अराकान योमा पर्वतरांग

Q.33 **डिसेंबर 2025 मध्ये युनेस्कोच्या अमूर्त सांस्कृतिक वारसा (ICH) संरक्षणासाठीच्या आंतरशासकीय समितीचे 20 वे सत्र कोठे आयोजित करण्यात आले होते?**

Ans

✓ 1. लाल किल्ला संकुल, नवी दिल्ली

✗ 2. इंडिया इंटरनॅशनल कन्व्हेन्शन अँड एक्स्पो सेंटर, द्वारका

✗ 3. राष्ट्रपती भवन कल्चरल सेंटर, नवी दिल्ली

✗ 4. विज्ञान भवन, नवी दिल्ली

Q.34 If $12\sin A + \cos A = \sqrt{4}\sin A$, find the value of $\tan A$.

Ans

✗ 1. $-\frac{1}{20}$

✗ 2. $-\frac{1}{16}$

✗ 3. $-\frac{1}{7}$

✓ 4. $-\frac{1}{10}$

Q.35 **19 is related to 153 following a certain logic. Following the same logic, 44 is related to 353. To which of the following is 31 related to, following the same logic?**
(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)

Ans

✗ 1. 243

✗ 2. 251

✓ 3. 249

✗ 4. 246

Q.36 **What is the average of the numbers 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, and 22?**

Ans
- ✗ 1. 11
- ✓ 2. 12
- ✗ 3. 14
- ✗ 4. 10

Q.37 **A chemist is analyzing a sample of sodium carbonate (Na_2CO_3) to determine its formula unit mass. If the sample contains 2 moles of sodium, 1 mole of carbon, and 3 moles of oxygen in each formula unit, what is the calculated formula unit mass of sodium carbonate (Na_2CO_3)? (Atomic masses: Na = 23 u, C = 12 u, O = 16 u)**

Ans
- ✗ 1. 94 u
- ✗ 2. 84 u
- ✗ 3. 122 u
- ✓ 4. 106 u

Q.38 **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 man out is not based on the number of consonants/vowels or their position in the letter cluster)

Ans
- ✓ 1. JA-EG
- ✗ 2. SJ-NQ
- ✗ 3. PG-KN
- ✗ 4. MD-HK

Q.39 **ग्रेट इंडियन डेझर्ट प्रदेशातून वाहणारी एकमेव मोठी नदी कोणती आहे?**

Ans
- ✓ 1. लुनी
- ✗ 2. चंबळ
- ✗ 3. साबरमती
- ✗ 4. मही

Q.40 **Find the total surface area of a cone, in square metres correct to two decimal places, if its slant height (in cm) is the greatest prime number less than 239 and its height (in cm) is the smallest multiple of 13 greater than 200. (Take π = $\frac{22}{7}$)**

Ans
- ✓ 1. 11.15
- ✗ 2. 11.84
- ✗ 3. 12.92
- ✗ 4. 12.36

Q.41 **एखाद्या जुन्या दगडाच्या खाणीच्या पुनर्निर्मिती योजनेत (restoration plan) अशा वनस्पतींचा समावेश करायचा आहे ज्यांना खरी मुळे, खोड आणि पाने असतात, परंतु बिया नसतात. यासाठी कोणता गट वापरणे सर्वात योग्य ठरेल?**

Ans
- ✗ 1. ब्रायोफायटा
- ✗ 2. थॅलोफायटा
- ✓ 3. टेरिडोफायटा
- ✗ 4. अनावृत्तबीजी

Q.42 **एका सरळव्याजाच्या दराने, एक ठराविक रक्कम 2 वर्षांत ₹1,750 आणि 3 वर्षांत ₹2,250 इतकी होते. तर व्याजाचा वार्षिक दर काढा. (दोन दशांश स्थानांपर्यंत मर्यादित)**

Ans
- ✗ 1. 25.25%
- ✗ 2. 50.25%
- ✗ 3. 33.33%
- ✓ 4. 66.67%

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Q.43 जुलै 2026 मध्ये, ASEAN फ्रेमवर्क चर्चेदरम्यान मुक्त नौकानयन प्रणाली (free navigation networks) आणि सागरी सुरक्षेच्या मुद्द्यांवर लक्ष केंद्रित करणारी उच्चस्तरीय क्वाड मंत्रीस्तरीय बैठक खालीलपैकी कोणत्या राजधानीच्या शहरात आयोजित करण्यात आली होती?

Ans
- ✗ 1. क्वालालंपूर
- ✓ 2. मनिला
- ✗ 3. बँकॉक
- ✗ 4. जकार्ता

Q.44 खालीलपैकी कोणती स्नायु ऊति लांब, दंडगोलाकार, स्तंभमूल आणि बहु-केंद्रकी पेशींनी बनलेली असून शरीराच्या ऐच्छिक हालचालीस सक्षम करते?

Ans
- ✗ 1. अंतरालित ऊति
- ✗ 2. मृदु स्नायु ऊति
- ✓ 3. रेखित स्नायु ऊति
- ✗ 4. हृद स्नायु ऊति

Q.45 **If a TV is bought for ₹32,000 and paid through 8 equal monthly installments at a compound interest rate of 12% per annum (compounded monthly), which of the following best represents the correct monthly installment (to the nearest rupee)?**

Ans
- ✓ 1. ₹4,182
- ✗ 2. ₹4,100
- ✗ 3. ₹4,028
- ✗ 4. ₹3,900

Q.46 निरीक्षण करताना ताऱ्याची आभासी स्थिती आणि वास्तविक स्थिती यांच्यात काय संबंध आहे?

Ans
- ✗ 1. ताऱ्याची आभासी स्थिती त्याच्या वास्तविक स्थितीपेक्षा खूप दूर असते.
- ✓ 2. ताऱ्याची आभासी स्थिती त्याच्या वास्तविक स्थितीपेक्षा थोडी वेगळी असते.
- ✗ 3. ताऱ्याची आभासी स्थिती त्याच्या वास्तविक स्थितीपासून 45° कोनात असते.
- ✗ 4. ताऱ्याची आभासी स्थिती त्याच्या वास्तविक स्थितीच्या समान असते.

Q.47 खालील अक्षरे आणि चिन्हांच्या मालिकेचा संदर्भ घ्या आणि प्रश्नाचे उत्तर द्या. मोजणी केवळ डावीकडून उजवीकडेच करायची आहे.
(डावी बाजू) U G W \ C = M O H $ @ D P & P ^ * A H E E (उजवी बाजू)
दिलेल्या मालिकेत अशी किती अक्षरे आहेत, की ज्यांच्या प्रत्येकाच्या लगत आधी एक चिन्ह आहे आणि लगत नंतरही एक चिन्ह आहे?

Ans
- ✗ 1. तीन
- ✗ 2. चार
- ✗ 3. एक
- ✓ 4. दोन

Q.48 ABCDEF is a regular hexagon with DE = 24 cm. If the area of the hexagon is $k\sqrt{3}$ cm^2, then the sum of digits of k is ____.

Ans
- ✗ 1. 15
- ✓ 2. 18
- ✗ 3. 25
- ✗ 4. 22

Q.49 **From a point A, which is at a distance of 30 cm from centre O of a circle of radius 18 cm, in the same plane, a pair of tangents AB and AC are drawn to the circle. The area of quadrilateral ABOC is:**

Ans
- ✓ 1. 432 cm^2
- ✗ 2. 240 cm^2
- ✗ 3. 456 cm^2
- ✗ 4. 216 cm^2

black

Q.50 **The average score of 100 students in a test is 63. Out of the total students, 50% are girls. The average score of boys is 10% more than that of the girls. Find the average score of girls.**

Ans
- ✔ 1. 60
- ✘ 2. 66
- ✘ 3. 62
- ✘ 4. 58

Q.51 **In December 2025, which institution conducted India's first clinical trial of the "Supernova Stent" for the treatment of stroke?**

Ans
- ✔ 1. All India Institute of Medical Sciences, New Delhi
- ✘ 2. Christian Medical College (CMC), Vellore
- ✘ 3. National Institute of Mental Health and Neurosciences (NIMHANS), Bengaluru
- ✘ 4. Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh

Q.52 **The product of two numbers is 468 and their L.C.M. is 78. Find their H.C.F.**

Ans
- ✘ 1. 1
- ✔ 2. 6
- ✘ 3. 12
- ✘ 4. 9

Q.53 **If an object is placed at twice the focal length (2F) from a convex lens, what is the magnitude of the magnification of the image formed?**

Ans
- ✘ 1. The magnification is zero
- ✘ 2. The magnification is less than one
- ✘ 3. The magnification is greater than one
- ✔ 4. The magnification is exactly one

Q.54 **यीस्टच्या किण्वन प्रक्रियेतून अंतिम उत्पादनांचे कोणते संयोजन मिळते?**

Ans
- ✘ 1. पाणी आणि कार्बन डायऑक्साइड
- ✘ 2. इथेनॉल आणि लॅक्टिक आम्ल
- ✔ 3. इथेनॉल आणि कार्बन डायऑक्साइड
- ✘ 4. लॅक्टिक आम्ल आणि पाणी

Q.55 **खालील शब्दांवर आधारित हा प्रश्न आहे.**
(डावी बाजू) LOB HIP MAT FLY (उजवी बाजू)
इंग्रजी वर्णक्रमानुसार, उजवीकडून तिसऱ्या शब्दातील तिसरे अक्षर आणि डावीकडून पहिल्या शब्दातील पहिले अक्षर यांच्या दरम्यान किती अक्षरे असतील?

Ans
- ✘ 1. 4
- ✘ 2. 2
- ✔ 3. 3
- ✘ 4. 6

Q.56 **Two friends, X and Y, started a business with capital contributions of ₹132 and ₹230, respectively. After 4 months, X invested an additional ₹88, while Y withdrew ₹46. At the end of the year, the business earned a profit of ₹48,825. What is X's share of the profit?**

Ans
- ✘ 1. ₹23,780
- ✘ 2. ₹23,970
- ✔ 3. ₹23,870
- ✘ 4. ₹23,650

adda247 book

Q.57 **Irank ranked 13th from the bottom and 63rd from the top in his class. How many students are there in his class?**

Ans
- ✗ 1. 60
- ✗ 2. 80
- ✗ 3. 70
- ✓ 4. 75

Q.58 **A manufacturer fixes his selling price at 50% over the cost of production. If the cost of production goes up by 50%, and the manufacturer raises his selling price by 22%, find the profit percentage.**

Ans
- ✗ 1. 21%
- ✓ 2. 22%
- ✗ 3. 25%
- ✗ 4. 23%

Q.59 If $5^{3x + 4} = (5^4)^{105}$, then what is the integral part of x?

Ans
- ✗ 1. 136
- ✗ 2. 137
- ✓ 3. 138
- ✗ 4. 139

Q.60 **Why should Plaster of Paris be stored in airtight containers?**

Ans
- ✓ 1. It absorbs moisture and hardens.
- ✗ 2. It reacts with oxygen.
- ✗ 3. It evaporates over time.
- ✗ 4. It becomes acidic.

Q.61 **इंटरगव्हर्नमेंटल पॅनेल ऑन क्लायमेट चेंजच्या (IPCC) मूल्यांकन अहवालानुसार, खालीलपैकी कोणता वायू मानवनिर्मित हरितगृह वायू उत्सर्जनात सर्वाधिक वैयक्तिक योगदान देतो?**

Ans
- ✗ 1. नायट्रस ऑक्साईड (Nitrous oxide)
- ✗ 2. मिथेन (Methane)
- ✗ 3. ट्रोपोस्फेरिक ओझोन (Tropospheric ozone)
- ✓ 4. कार्बन डायऑक्साइड (Carbon dioxide)

Q.62 **If 'A' stands for '÷' , 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-' , what will come in place of the question mark '?' in the following equation?**
392 A 14 C 15 B 12 D 78 =?

Ans
- ✓ 1. 130
- ✗ 2. 113
- ✗ 3. 124
- ✗ 4. 115

Q.63 **Which combination of metal and solution would NOT result in a displacement reaction based on the reactivity series?**

Ans
- ✓ 1. Copper placed in zinc sulfate solution
- ✗ 2. Iron placed in copper sulfate solution
- ✗ 3. Magnesium placed in copper sulfate solution
- ✗ 4. Zinc placed in lead nitrate solution

Q.64 जर कीटकांच्या लोकसंख्येवर नवीन कीटकनाशकाचा प्रयोग केला गेला, तर त्याचा दीर्घकालीन परिणाम काय होण्याची सर्वाधिक शक्यता आहे?

Ans
- ✔ 1. प्रतिकारक्षम जीव टिकून राहतात आणि त्यांचे गुणधर्म संक्रमित करतात.
- ✘ 2. कोणत्याही प्रतिकाराशिवाय संपूर्ण लोकसंख्या नष्ट होते.
- ✘ 3. सर्व कीटक त्या रसायनाशी त्वरित जुळवून घेतात.
- ✘ 4. लोकसंख्येची अनुवांशिक संरचना अपरिवर्तित राहते.

Q.65 **A, B, U, V, Y and Z each scored different marks. Only two people have scored more than Z. Only U has scored less than V. B has scored more than A but less than Y. How many people have scored more than A?**

Ans
- ✘ 1. Two
- ✘ 2. Four
- ✘ 3. One
- ✔ 4. Three

Q.66 तांब्याच्या विद्युतअपघटनी परिष्करणात (इलेक्ट्रोलाइटिक रिफायनिंगमध्ये) अशुद्ध तांब्याच्या ॲनोडमध्ये असलेल्या अशुद्धीचे काय होते?

Ans
- ✘ 1. ती वायूच्या स्वरुपात बाहेर पडते
- ✘ 2. ती विद्युतअपघटनीमध्ये विरघळते
- ✘ 3. ती कॅथोडवर जमा होते
- ✔ 4. ती ॲनोडखाली ॲनोडच्या गाळाच्या स्वरुपात तळाशी बसते

Q.67 **Raman's monthly income is ₹18,500. He saves 28% of his income. His income then increases by 13%, while his expenditure increases by 45%, then his savings will:**

Ans
- ✘ 1. Increase by ₹3,585
- ✘ 2. Increase by ₹3,586
- ✘ 3. Decrease by ₹3,587
- ✔ 4. Decrease by ₹3,589

Q.68 **In this question, a group of numbers/symbols is coded using letter codes as per the codes given below and the conditions which follow. The correct combination of codes following the conditions is your answer. If none of the conditions follow, then the codes for the respective number/symbol to be followed directly as given in the table.**

Number/Symbol 3 @ 7 # 2 % 8 & 1 $ 6 + 9 4

Code NK ARDMVP HTFWLQ

Conditions –
(i) If the second element is a symbol, code the fifth element as ©.
(ii) If the first element is a symbol, interchange the first and last codes.
(iii) If the third element is a symbol, replace the second code with the third code.

What will be the code for the following?
7 & 4 9 2

Ans
- ✘ 1. QPDLA
- ✘ 2. APDLD
- ✔ 3. APQL©
- ✘ 4. APRLD

Q.69 **Divide ₹5439 into three parts in such a way that half of the first part, one-fourth of the second part and one-eighth of the third part are equal. Find the third part (in ₹).**

Ans
- ✘ 1. 3408
- ✘ 2. 3008
- ✘ 3. 2808
- ✔ 4. 3108

Q.70 मानवी मेरुदंडातील (पाठीच्या कण्यातील) मणक्यांच्या मध्ये आढळणाऱ्या उपास्थीच्या चकत्यांचे (cartilage discs) मुख्य कार्य काय आहे?

Ans
- ✗ 1. शरीरासाठी रक्तपेशींची निर्मिती करणे
- ✗ 2. बरगड्यांसह सांधे तयार करणे
- ✗ 3. शरीराचे वजन थेट पेलणे
- ✓ 4. कुशनसारखे काम करणे आणि लवचिकता देणे

Q.71 How many metres of a 10 m – wide cloth will be required to make a con

Ans
- ✗ 1. 220
- ✗ 2. 245
- ✗ 3. 188
- ✓ 4. 231

Q.72 खालीलपैकी कोणत्या वर्गीकरणशास्त्रातील गटांमध्ये (taxonomic groups) अशा सजीवांचा समावेश होतो जे आंतरप्रजनन करू शकतात आणि प्रजननक्षम संतती निर्माण करू शकतात?

Ans
- ✗ 1. वर्ग
- ✓ 2. जाती
- ✗ 3. कुल
- ✗ 4. सृष्टी

Q.73 **Pari has to travel 909 km in 14 hours. She travels at 45 km/h for the first 3 hours, and then at 42 km/h for the next 126 km. At what speed must she travel for the rest of the journey to reach her destination in exactly 14 hours?**

Ans
- ✗ 1. 84 km/h
- ✓ 2. 81 km/h
- ✗ 3. 75 km/h
- ✗ 4. 78 km/h

Q.74 **The first Khelo India Tribal Games 2026 were scheduled across which three cities of Chhattisgarh?**

Ans
- ✗ 1. Bilaspur, Sarguja and Ambikapur
- ✗ 2. Jagdalpur, Korba and Raigarh
- ✗ 3. Raipur, Bilaspur and Durg
- ✓ 4. Raipur, Jagdalpur and Sarguja

Q.75 **What should come in place of the question mark (?) in the given series?**

4 8 11 22 25 ?

Ans
- ✗ 1. 53
- ✓ 2. 50
- ✗ 3. 26
- ✗ 4. 28

Q.76 **DZWV is related to ZVSR in a certain way based on the English alphabetical order. In the same way, IEBA is related to EAXW. To which of the given options is OKHG related, following the same logic?**

Ans
- ✗ 1. KGCC
- ✓ 2. KGDC
- ✗ 3. KFCC
- ✗ 4. KHCE

Q.77 When was the National Rural Health Mission (NRHM) officially launched in India for the improvement of healthcare delivery in rural areas?

Ans
- ✗ 1. 2008
- ✗ 2. 2011
- ✓ 3. 2005
- ✗ 4. 2014

Q.78 कोणती शास्त्रीय नृत्यशैली 'त्रिभंग' (Tribhanga) मुद्रेसाठी वैशिष्ट्यपूर्ण मानली जाते, ज्यामध्ये मान, धड आणि गुडघे अशा तीन ठिकाणी शरीराला बाक दिला जातो?

Ans
- ✗ 1. भरतनाट्यम
- ✓ 2. ओडिसी
- ✗ 3. कथकली
- ✗ 4. कुचिपुडी

Q.79 **One of the quadrilateral's diagonals is 54 cm long, and the perpendiculars drawn from the other two vertices this diagonal are 38 and 18 cm, respectively. Determine the quadrilateral's area.**

Ans
- ✗ 1. $1510\ \text{cm}^2$
- ✗ 2. $1514\ \text{cm}^2$
- ✓ 3. $1512\ \text{cm}^2$
- ✗ 4. $1511\ \text{cm}^2$

Q.80 A teacher asks students to analyze the image formation in a convex lens using the sign convention. Which combination of signs for object distance and image distance confirms the image is real and inverted?

Ans
- ✗ 1. Object distance positive, image distance positive
- ✗ 2. Object distance positive, image distance negative
- ✓ 3. Object distance negative, image distance positive
- ✗ 4. Object distance negative, image distance negative

Q.81 Which combination of vision defects is commonly corrected using bifocal lenses?

Ans
- ✗ 1. Myopia and hypermetropia
- ✗ 2. Hypermetropia and astigmatism
- ✓ 3. Presbyopia and myopia
- ✗ 4. Myopia and astigmatism

Q.82 In a moderately skewed frequency distribution, the sum of the mean, median, and mode is 180. If the mean exceeds the median by 15, find the value of the mode. (Use the empirical relationship among the mean, median, and mode.)

Ans
- ✓ 1. 35
- ✗ 2. 30
- ✗ 3. 25
- ✗ 4. 40

Q.83 An object moves with constant velocity, and a retarding force is applied in the opposite direction. The object stops after moving a distance s. How is the work done by this retarding force represented?

Ans
- ✗ 1. No work done
- ✗ 2. F×0 (zero work)
- ✗ 3. F×s (positive work)
- ✓ 4. F×(-s) or -F×s (negative work)

black

Q.84 **A bike covers a certain distance in 14 hours. It covers half of the distance at a speed of 80 km/h and the remaining half at a speed of 60 km/h. Find the total distance (in km) covered by the bike.**

Ans
- ✔ 1. 960
- ✘ 2. 865
- ✘ 3. 750
- ✘ 4. 950

Q.85 **Navjot invested ₹65000 at 8% per annum for 1 year at compound interest, compounded half-yearly. The amount received by him is:**

Ans
- ✘ 1. ₹70421
- ✘ 2. ₹71290
- ✘ 3. ₹70321
- ✔ 4. ₹70304

Q.86 **A, B, C, D, G, H and I are sitting around a circular table facing the centre of the table. I sits third to the left of A. B sits second to the left of D. A is an immediate neighbour of both H and B. G is not an immediate neighbor of I. How many people sit between C and B when counted from the right of C?**

Ans
- ✘ 1. One
- ✔ 2. Two
- ✘ 3. Three
- ✘ 4. Four

Q.87 **If the ratio of two numbers is 2 : 1, and their HCF is 48, then their LCM is:**

Ans
- ✔ 1. 96
- ✘ 2. 72
- ✘ 3. 144
- ✘ 4. 120

Q.88 **In a certain code language,**
'A + B' means 'A is the son of B',
'A – B' means 'A is the sister of B',
'A x B' means 'A is the wife of B' and
'A ÷ B' means ' A is the father of B'.
Based on the above, how is F related to Z if 'F x V + J ÷ L – Z'?

Ans
- ✔ 1. Brother's wife
- ✘ 2. Wife
- ✘ 3. Daughter
- ✘ 4. Brother's daughter

Q.89 **भारतातील सत्त्याण्णव टक्क्यांपेक्षा जास्त कोळशाचे साठे दामोदर, सोन, महानदी आणि इतर कोणत्या नदीच्या खोऱ्यात आढळतात?**

Ans
- ✘ 1. कावेरी
- ✔ 2. गोदावरी
- ✘ 3. कृष्णा
- ✘ 4. नर्मदा

Q.90 **A product is sold at a profit of 127% on its cost price. If the cost price and selling price are interchanged, what percentage loss would be incurred on the transaction? Give your answer rounded off to two decimal places.**

Ans
- ✘ 1. 54.22%
- ✘ 2. 55.49%
- ✔ 3. 55.95%
- ✘ 4. 58.49%

Black book

Q.91 **Which of the following options is equivalent to $729x^3 + 343y^3 + 1701x^2y + 1323xy^2$?**

Ans

✗ 1. $(9x + 10y)^3$

✗ 2. $(7x + 9y)^3$

✓ 3. $(9x + 7y)^3$

✗ 4. $(11x + 7y)^3$

Q.92 **The current population of a town is 15,500. It increases by 31% in the first year and by 25% in the second year, but decreases by 52% in the third year. What is the population of the town at the end of the third year?**

Ans

✓ 1. 12,183

✗ 2. 12,187

✗ 3. 12,185

✗ 4. 12,181

Q.93 **Which part of the human brain is mainly responsible for thinking, reasoning, and decision-making?**

Ans

✓ 1. Fore-brain

✗ 2. Hind-brain

✗ 3. Mid-brain

✗ 4. Spinal cord

Q.94 **If an object's velocity-time graph is a horizontal line above the time axis, what does this indicate about the object's motion?**

Ans

✗ 1. The object is moving with increasing velocity

✗ 2. The object is at rest throughout the motion

✓ 3. The object is moving at a constant positive velocity

✗ 4. The object is moving with decreasing velocity

Q.95 **F is the father of R. R is the brother of U. B is the father of H. H is the son of U. How is H related to F?**

Ans

✗ 1. Father

✓ 2. Daughter's son

✗ 3. Daughter's husband

✗ 4. Brother

Q.96 **कार्बनी संयुगांबद्दल खालीलपैकी कोणते विधान चुकीचे आहे?**

Ans

✗ 1. व्हायटल फोर्स थिअरीमध्ये, सुरुवातीला संयुगांचे नैसर्गिक पदार्थांपासून निष्कर्षण केले जात असे

✗ 2. फ्रेडरिक व्होलरने अमोनिअम सायनेटपासून युरिया तयार करून व्हायटल फोर्स थिअरी नाकारली

✗ 3. कार्बनमध्ये चतु:संयुजा आणि शृंखलाबंधन ही दोन वैशिष्ट्यपूर्ण रचना दिसून येतात

✓ 4. फ्रेडरिक व्होलरने 1838 मध्ये 'व्हायटल फोर्स थिअरी' नाशाबीत केली

Q.97 **When a beam of light passes through a mixture of water and fine chalk powder, the path of light becomes visible. Which concept explains this phenomenon?**

Ans

✗ 1. Brownian Motion

✓ 2. Tyndall Effect

✗ 3. Sedimentation

✗ 4. Filtration

Q.98 **In a lever, the fulcrum is placed closer to the load than to the effort. What is the advantage of this arrangement?**

Ans

✗ 1. The effort required remains equal to the load.

✓ 2. Less effort is required, but the effort moves through a greater distance.

✗ 3. More effort is required, but the effort moves through a shorter distance.

✗ 4. Less effort is required, and the effort moves through a shorter distance.

Q.99 **If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 1857632, what will be the sum of the digits which are second from the left and third from the right of the new number thus formed?**

Ans

✗ 1. 11

✗ 2. 8

✗ 3. 9

✓ 4. 10

Q.100 **1925 पर्यंत, ब्रिटिश भारतातील किती प्रांतांनी स्थानिक स्वराज्याला औपचारिक स्वरूप देण्यासाठी पंचायत अधिनियम लागू (अधिनियमित) केले होते?**

Ans

✗ 1. वीस

✓ 2. आठ

✗ 3. चार

✗ 4. सहा

"

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