



रेलवे भर्ती बोर्ड / RAILWAY RECRUITMENT BOARD
सीईएन ०२/२०२६ - तकनीशियन ग्रेड I सिगनल और तकनीशियन ग्रेड III
CEN 02/2026 - Technician Grade I Signal and Technician Grade III



Test Date	09/10/2026
Test Time	9:00 AM - 10:30 AM
Subject	RRB Technician Grade III

* 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 : Mathematics

Q.1	If 20% of k is 10 less than 1800% of 20, then k is:	
Ans A).	1710	B). 1730 C). 1750 D). 1790
		Correct Answer: C
Q.2	A man has invested ₹57500 at a rate of 8% per annum simple interest for 4 years. Find the amount (in ₹) that he will receive after 4 years.	
Ans A).	75900	B). 76900 C). 19400 D). 18400
		Correct Answer: A
Q.3	A retailer gives two successive discounts of 3y% and 15% on an item, resulting in a single equivalent discount of 28%. What is the value of y? (Rounded off to the nearest integer)	
Ans A).	7	B). 6 C). 5 D). 4
		Correct Answer: C
Q.4	A trapezium has parallel sides 18 cm and 12 cm. The height of the trapezium is equal to the average of the lengths of the two parallel sides. What is the area of the trapezium?	
Ans A).	220 cm ²	B). 225 cm ² C). 212 cm ² D). 200 cm ²
		Correct Answer: B
Q.5	A class is divided into three sections A, B, and C. Section A has 25 students with an average score of 70. Section B has 35 students with an average score of 60. Section C has 40 students. If the combined average score of all 100 students is 63, what is the average score of Section C?	
Ans A).	61.25	B). 64.25 C). 58.25 D). 67.25
		Correct Answer: A
Q.6	If $x^2 + \frac{1}{x^2} = 23$, then the value of $\frac{4x}{5x^2 - 3x + 5}$ is:	
Ans A).	$\frac{21}{10}$	B). $\frac{1}{5}$ C). $\frac{2}{11}$ D). $\frac{11}{3}$
		Correct Answer: C
Q.7	The mean proportion of X and $(20 - 4\sqrt{24})^{-\frac{1}{2}}$ is $\frac{1}{2}\sqrt{10 + 4\sqrt{6}}$, then the value of X is:	
Ans A).	$\sqrt{5 - 2\sqrt{3}}$	B). $\sqrt{5 + 2\sqrt{6}}$ C). $\sqrt{5 - \sqrt{6}}$ D). $\sqrt{5 + 2\sqrt{3}}$
		Correct Answer: B



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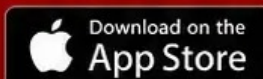


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Q.8	An individual invests ₹10,000 at an annual compound interest rate of 5%. Find the total amount after 3 years.				
Ans A).	₹11,200.50	B). ₹12,000	C). ₹11,000	D). ₹11,576.25	Correct Answer: D
Q.9	A sum is invested for 2 years at compound interest, compounded annually. At an annual interest rate of x%, the amount becomes ₹24,200. If the annual interest rate is (x + 10)%, the amount becomes ₹28,800. What is the value of x?				
Ans A).	15	B). 5	C). 10	D). 20	Correct Answer: C
Q.10	The cost price of an article is ₹800. It is sold at a profit of 15%. What is the selling price of the article?				
Ans A).	₹900	B). ₹880	C). ₹920	D). ₹850	Correct Answer: C
Q.11	Rahul travels three equal distances on his cycle with the speeds of 8 km/hr, 10 km/hr and 15 km/hr and takes a total time of 2 hours 27 minutes. The total distance (in km) covered by him is:				
Ans A).	27.2 km	B). 27.5 km	C). 25.2 km	D). 28.5 km	Correct Answer: C
Q.12	Select the smallest ratio among following. A- 5 : 7 B- 4 : 5 C- 9 : 10 D- 3 : 4				
Ans A).	D	B). A	C). B	D). C	Correct Answer: B
Q.13	A shopkeeper bought 6 identical mobile phones for a total of ₹12,000. He then sold 2 of these mobile phones for a total of ₹10,000. What is his gain percentage on the phones sold?				
Ans A).	148%	B). 152%	C). 150%	D). 153%	Correct Answer: C
Q.14	A rectangular sheet of paper, 132 cm × 12 cm, is rolled along its length to form a cylinder. Find the volume of the cylinder so formed.				
Ans A).	16362 cm ³	B). 16623 cm ³	C). 16326 cm ³	D). 16632 cm ³	Correct Answer: D
Q.15	Three taps X, Y, and Z can fill a tank in 15 minutes, 12 minutes and 20 minutes, respectively. If Y is kept open all the time whereas X and Z are open for one hour alternately starting with X, then the tank will be filling in:				
Ans A).	8 hours	B). 6 hours	C). 5 hours	D). 7 hours	Correct Answer: D
Q.16	The 6-digit number 2A683B is divisible by 3. Find the least possible value of (A+B).				
Ans A).	11	B). 2	C). 8	D). 5	Correct Answer: B
Q.17	Pipe C can fill a tank in 10 hours and Pipe D can fill it in 15 hours. If both pipes are opened together, how much time (in hours) will it take to fill the tank?				
Ans A).	8	B). 10	C). 6	D). 5	Correct Answer: C
Q.18	The average sale of cars by a dealer per day in the month of March, other than on Saturdays and Sundays, is 116. The average sale of cars per day on Sundays is 126. What is the average sale of cars per day on Saturdays, if the first Saturday is on the 3 rd of March and average sale of cars per day for the whole month is 121?				
Ans A).	135	B). 139	C). 143	D). 138	Correct Answer: B
Q.19	Find the value of $\frac{\tan A}{1 - \sqrt{\operatorname{cosec}^2 A - 1}} + \frac{\cot A}{1 - \sqrt{\sec^2 A - 1}}$.				
Ans A).	1 - tanA + cotA	B). 1 - tanA - cotA	C). 1 + tanA + cotA	D). 1 + tanA - cotA	Correct Answer: C
Q.20	Find the smallest number divisible by 5, 10 and 15.				
Ans A).	30	B). 20	C). 60	D). 45	Correct Answer: A

Q.21	The sum of the present ages of Tommy and Arthur is 50 years. Four years ago, Arthur's age was half of Tommy's age at that time. What is Tommy's present age (in years)?	Ans A). 39	B). 32	C). 28	D). 37	Correct Answer: B
Q.22	In a 2520 m circular race, Siddharth finishes one round in 90 seconds and Yash finishes one round in 45 seconds. How many different meeting points are there on the circumference if they are running in the opposite directions?	Ans A). 13	B). 3	C). 9	D). 12	Correct Answer: B
Q.23	The following figures give the temperature (in °C) of city X for a week in the month of March. Find the arithmetic mean (in °C) of the temperatures by the direct method. Temperature recorded: 32.3, 34.5, 33.1, 32.7, 35.3, 33.2, 34.1	Ans A). 33.8	B). 32.8	C). 33.4	D). 33.6	Correct Answer: D
Q.24	A, B, C and D are four points in order on a circle such that C is exactly opposite to A and D is exactly opposite to B. Which of the followings is NOT true?	Ans A). AC = BD	B). AB = CD	C). AC = CD	D). AD = BC	Correct Answer: C
Q.25	AB is parallel to CD. A transversal PQ intersects AB and CD at E and F, respectively, and $\angle PEB = 38^\circ$. G is a point between AB and CD such that $\angle BEG = 24^\circ$ and $\angle GFE = 29^\circ$. What is the measure of $\angle EGF$?	Ans A). 47°	B). 27°	C). 33°	D). 21°	Correct Answer: C

Section : General Intelligence and Reasoning

Q.26	In this question, a question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer. Among 5 poles, A, B, D, I and Y each having a different height, which pole is the tallest? (I) D is taller than only one pole. I is shorter than B but taller than A. (II) I is taller than Y.	Ans A). Data in Statement I alone is sufficient to answer the question while data in statement II is not	B). Data in Statement II alone is sufficient to answer the question while data in statement I is not	C). Both statements I and II together are NOT sufficient to answer the question	D). Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question	Correct Answer: D
Q.27	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: Among 5 poles, W, O, K, G and Y each having a different height, which pole is the shortest? Statements: I. Y is shorter than O. G is shorter than W. II. G is taller than Y.	Ans A). Data in Statement II alone is sufficient to answer the question while data in statement I is not	B). Data in Statement I alone is sufficient to answer the question while data in statement II is not	C). Both statements I and II together are NOT sufficient to answer the question	D). Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question.	Correct Answer: C
Q.28	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 A). AB - EG	B). JH - KM	C). LM - PR	D). XY - BD	Correct Answer: B
Q.29	What should come in place of '?' in the given series? 8 10 13 18 25 ?	Ans A). 33	B). 31	C). 37	D). 36	Correct Answer: D

Q.30	IHEF is related to BAXY in a certain way based on the English alphabetical order. In the same way, XWTU is related to QPMN. To which of the following is SROP related, following the same logic?	Ans A). LKHI	B). LKGI	C). LLGP	D). LJGI	Correct Answer: A
Q.31	A, B, C, D, E and F live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 6. E lives on a floor which is a prime number. The product of floors on which E and A live is 8. B lives immediately above F. The sum of floors on which A and C lives is 7. What is the sum of floors on which A and B live?	Ans A). 8	B). 9	C). 11	D). 10	Correct Answer: D
Q.32	What should come in place of the question mark (?) in the given series? 24 12 12 18 36 ?	Ans A). 75	B). 85	C). 80	D). 90	Correct Answer: D
Q.33	S is the brother of G. G is the father of U. H is the father of M. M is the son of U. How is H related to S?	Ans A). Sister's husband	B). Brother's wife's brother	C). Brother's daughter's husband	D). Husband	Correct Answer: C
Q.34	If + means -, - means ×, × means ÷, and ÷ means +, what is the value of: 5 - 16 ÷ 4 + 12 × 3 = ?	Ans A). 80	B). 90	C). 95	D). 85	Correct Answer: A
Q.35	In the word MARKET if you rearrange all the letters in alphabetic order, how many letters are in the same positions as in the original word ?	Ans A). Two	B). None	C). Three	D). One	Correct Answer: D
Q.36	Refer to the following letter series and answer the question. Counting to be done from left to right only. (Left) P O U S I K J Y H B V F T E B G T E X E H Y (Right) How many such consonants are there each of which is immediately preceded by a vowel and also immediately followed by a vowel?	Ans A). Two	B). Three	C). One	D). None	Correct Answer: A
Q.37	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 ^ \$ Code X Z C E H K N Q T W Conditions – (i) If the first element is a number and the last a symbol, the codes for these two (the first and the last elements) are to be interchanged. (ii) If the first element is an odd number and the last an even number, the first and last elements are to be coded as ©. (iii) If both the second and third elements are odd numbers, the third element is to be coded as the code for the second element. What is the code for the following group of number-symbols? 1 8 + 6 \$	Ans A). W K H X E	B). E K H X W	C). E H H X W	D). W K K X E	Correct Answer: A
Q.38	If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+', and 'D' stands for '–', what will come in place of the question mark (?) in the following equation? 10 B 5 D 24 A 4 C 8 = ? D 8	Ans A). 70	B). 50	C). 40	D). 60	Correct Answer: D

Q.39	Seven people, A, B, C, D, X, Y and Z are sitting in a row, facing north. Only X sits to the right of C. Only three people sit between C and D. A sits third to the left of Y. B is not an immediate neighbour of C. Who sits third to the right of D?	Ans A). A	B). X	C). Z	D). B	Correct Answer: C
Q.40	In a certain code language, 'FACE' is coded as '6348' and 'CAKE' is coded as '6734'. What is the code for 'K' in the given code language?	Ans A). 3	B). 6	C). 4	D). 7	Correct Answer: D
Q.41	Refer to the following letter series and answer the question. Counting to be done from left to right only. (Left) M B Y Q U Z S H C E R A K T D O F X I G W (Right) How many such consonants are there each of which is immediately preceded by a vowel and also immediately followed by a vowel?	Ans A). Two	B). Three	C). One	D). None	Correct Answer: C
Q.42	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 letter-cluster pair 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 pair.)	Ans A). IE–FB	B). NJ–JI	C). EA–BX	D). QM–NJ	Correct Answer: B
Q.43	Each letter in the word LANGUID is arranged in alphabetical order. How many letters are there in the English alphabetical order between the letter which is third from the left and the one which is first from the right in the new letter cluster thus formed?	Ans A). 14	B). 12	C). 16	D). 13	Correct Answer: D
Q.44	P, Q, R, S, T, U এবং V একই বিভিন্নয়ের সাতটি ভিন্ন ফ্লোরে বাস করে। বিভিন্নয়ের সবচেয়ে নিচের ফ্লোরটিকে 1 নম্বর, তার ঠিক উপরের ফ্লোরটিকে 2 নম্বর এবং এই ক্রমে সর্বোচ্চ ফ্লোরটিকে 7 নম্বর দ্বারা চিহ্নিত করা হয়। R একটি জোড় সংখ্যায়ুক্ত ফ্লোরে বাস করে। কেবল তিনজন ব্যক্তি বাস করে R এবং U এর মাঝে। T বাস করে V এর ঠিক উপরে কিন্তু Q এর ঠিক নিচের ফ্লোরে। R এবং S যে ফ্লোরগুলিতে বাস করে তাদের সংখ্যাগত মানের সমষ্টি 10 এর বেশি। এই বিন্যাসে, একটি নির্দিষ্ট যুক্তি অনুসরণ করে, S যেভাবে 5 নম্বর ফ্লোরের সঙ্গে সম্পর্কিত, সেই একইভাবে Q সম্পর্কিত 3 নম্বর ফ্লোরের সঙ্গে। অনুরূপ যুক্তি অনুসরণ করে, নিচের কোন ফ্লোরটির সঙ্গে T সম্পর্কিত?	Ans A). 6	B). 2	C). 4	D). 1	Correct Answer: B
Q.45	Rohit starts from Point A and drives 10 km towards north. He then takes a left turn, drives 12 km, turns left and drives 11 km. He then takes a left turn and drives 15 km. He takes a final left turn, drives 1 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-degree turns only unless specified.)	Ans A). 3 km to the east	B). 4 km to the west	C). 4 km to the east	D). 3 km to the west	Correct Answer: D
Q.46	24 is related to 192 following a certain logic. Following the same logic, 19 is related to 152. To which of the following is 32 related, 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 A). 216	B). 226	C). 256	D). 236	Correct Answer: C
Q.47	Select the pair that follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern. RVR–NRN SWS–OSO	Ans A). LOJ–HLH	B). LPL–GLG	C). LPL–HLH	D). LOJ–GKG	Correct Answer: C
Q.48	What should come in place of ? in the given series based on the English alphabetical order? AZ, BY, CX, DW, ?	Ans A). EU	B). FV	C). FU	D). EV	Correct Answer: D

Q.49	What will come in the place of '?' in the following equation, if '+' and '÷' are interchanged and '-' and 'x' are interchanged?			
195 + 3 x 22 - 6 ÷ 117 = ?				
Ans A). 43	B). 51	C). 50	D). 57	Correct Answer: C
Q.50	In a certain code language, 'cup drama tale' is coded as ' fi gh qf' and 'ear tale mask' is coded as 'pq dy fi'. How is 'tale' coded in the given language?			
Ans A). fi	B). gh	C). pq	D). qf	Correct Answer: A

Section : General Science

Q.51	What are the necessary conditions for corrosion or rusting of iron?							
Ans A).	Only moisture	B).	Both moisture and air/oxygen	C).	Only high temperature	D).	Only air/oxygen	Correct Answer: B
Q.52	রক্ত সংবহনের সময়, রক্ত যখন ফুসফুসের মধ্য দিয়ে যায় তখন কোন প্রক্রিয়াটি ঘটে?							
Ans A).	বর্জ্য অপসারণের জন্য রক্ত পরিস্ফুট হয়	B).	পুষ্টি উপাদান রক্তে শোষিত হয়	C).	অক্সিজেন শোষিত হয় এবং কার্বন ডাই অক্সাইড নির্গত হয়	D).	কার্বন ডাই অক্সাইড শোষিত হয় এবং অক্সিজেন নির্গত হয়	Correct Answer: C
Q.53	Which of the following best describes why noble gases have a valency of zero?							
Ans A).	Their outermost shell is already complete and stable	B).	They have no electrons in the outer shell to react	C).	They are the smallest atoms in the periodic table	D).	They cannot form ions under any condition	Correct Answer: A
Q.54	In a grassland food web, which of the following would most likely happen if the population of primary consumers such as rabbits dramatically decreased?							
Ans A).	The grass population would decrease due to increased grazing.	B).	The top predator population would increase due to more available prey.	C).	The population of decomposers would increase due to more dead matter.	D).	The secondary consumer population would decrease due to reduced food availability.	Correct Answer: D
Q.55	Persistent high blood pressure may increase the risk of _____.							
Ans A).	Improved blood circulation	B).	Faster digestion of food	C).	Increased oxygen production	D).	Heart disease and stroke	Correct Answer: D
Q.56	Which of the following statements is/are true? a. The rusting of iron can be prevented by making alloys. b. Stainless steel is primarily an alloy of iron, chromium, and nickel. c. An alloy is a heterogenous mixture of two or more metals.							
Ans A).	Only a	B).	a and c	C).	a and b	D).	b and c	Correct Answer: C
Q.57	In the context of spherical mirrors, what is the relationship between the principal axis and the normal at the pole?							
Ans A).	The principal axis is parallel to the mirror's surface at the pole	B).	The principal axis is perpendicular to the mirror's surface at the pole	C).	The principal axis is tangent to the mirror's surface at the pole	D).	The principal axis forms a 45-degree angle with the mirror's surface at the pole	Correct Answer: B
Q.58	A student modifies the experiment by replacing the copper wire with a plastic thread between points X and Y, keeping all other conditions unchanged. What will be the expected observation regarding the compass needle and why?							
Ans A).	The compass needle will deflect more sharply due to increased resistance in plastic.	B).	The compass needle will not deflect because plastic does not conduct electricity and thus no magnetic field is produced.	C).	The compass needle will deflect less because plastic creates a weaker magnetic field than copper.	D).	The compass needle will deflect slightly due to friction between the thread and support.	Correct Answer: B
Q.59	Which property of convex mirrors makes them suitable for use in shopping malls for security purposes?							
Ans A).	They reverse the image.	B).	They reflect light in parallel beams.	C).	They give a wide field of view.	D).	They magnify the image.	Correct Answer: C

Q.60 The base of the skull, extends a flexible column called _____.				
Ans A). Atlas column	B). Axis column	C). Vertebral Column	D). Sternum column	Correct Answer: C
Q.61 Consider the following statements regarding the behaviour of acids and bases in aqueous solutions and choose the correct statement. (I) Acids produce H ⁺ ions in aqueous solutions. (II) Bases produce OH ⁻ ions in aqueous solutions. (III) The acidic nature of a solution is due to the presence of OH ⁻ ions. (IV) The basic nature of a solution is due to the presence of OH ⁻ ions.				
Ans A). Only II and III	B). Only III and IV	C). Only I, II and IV	D). Only I and II	Correct Answer: C
Q.62 What is the chemical formula of washing soda?				
Ans A). NaHCO ₃	B). Na ₂ CO ₃ ·10H ₂ O	C). NaCl	D). CaCO ₃	Correct Answer: B
Q.63 Which of the following structures is directly involved in the process of menstruation?				
Ans A). Fallopian tube	B). Uterus	C). Liver	D). Ovary	Correct Answer: B
Q.64 The process of settling down of colloidal particles by adding an electrolyte is called:				
Ans A). peptisation	B). emulsification	C). dialysis	D). coagulation	Correct Answer: D
Q.65 A rainbow is observed after a rain shower when sunlight passes through water droplets in the air. Which process primarily causes the separation of colors seen in a rainbow?				
Ans A). Scattering of sunlight by air molecules		B). Absorption of sunlight by water droplets		
C). Reflection of sunlight from the surface of raindrops		D). Refraction of sunlight followed by dispersion in water droplets		
Correct Answer: D				
Q.66 একটি বিজ্ঞান প্রকল্পের জন্য শিক্ষার্থীদের এমনভাবে একটি প্রথম-শ্রেণির লিভারকে অ্যাডজাস্ট করতে হবে, যাতে তারা ন্যূনতম বল প্রয়োগ করে একটি ভারী বস্তুকে তুলতে পারে। কীভাবে অ্যাডজাস্ট করলে তারা সর্বাধিক যান্ত্রিক সুবিধা পাবে?				
Ans A). বস্তু বা ভারটির ওজন নির্বিশেষে আলসকে ঠিক কেন্দ্রে স্থাপন করা		B). ভারটিকে আলস থেকে যথাসম্ভব দূরে স্থাপন করা		C). ভারবাহুর দৈর্ঘ্য কম রেখে বলবাহুর দৈর্ঘ্যকে সর্বনিম্ন করা
D). ভারবাহুর দৈর্ঘ্য বেশি রেখে বলবাহুর দৈর্ঘ্যকে সর্বাধিক করা				
Correct Answer: D				
Q.67 Which strategy is most effective in reducing tobacco use among teenagers?				
Ans A). Showing graphic images without explanation		B). Providing sports equipment for students		C). Teaching health risks through workshops
D). Distributing general information pamphlets				
Correct Answer: C				
Q.68 কোন বৈশিষ্ট্যটি সীমিত আর্দ্রতাস্থ স্থানে ব্রায়োফাইটের চেয়ে টেরিডোফাইটকে ভালোভাবে টিকে থাকতে সাহায্য করে?				
Ans A). প্রকৃত মূল, কাণ্ড এবং পাতার অনুপস্থিতি		B). জল ও পুষ্টি পরিবহনের জন্য সংবহন কলার উপস্থিতি		C). পুং গ্যামেটগুলির চলাচলের জন্য জলের উপর নির্ভরশীলতা
D). শুষ্কমাত্র সমগ্র উদ্ভিদদেহ দ্বারা সরাসরি জল শোষণ				
Correct Answer: B				
Q.69 A botanist is attempting to genetically modify a crop plant to increase its height and repair capability after damage. Which plant tissue should she focus on enhancing to make the plant more effective?				
Ans A). Focus on enhancing the meristematic tissue as it drives growth and regeneration.				
B). Focus on enhancing the epidermal tissue as it protects against pathogens.		C). Focus on enhancing the ground tissue as it stores food.		
D). Focus on enhancing the vascular tissue as it transports nutrients and water.				
Correct Answer: A				
Q.70 Which tissue can be found in a fern stem cross-section, but is missing in Bryophyta and Thallophyta?				
Ans A). Chlorophyll	B). Root hairs	C). Vascular bundles	D). Leaf pores	Correct Answer: C
Q.71 Which of the following factors is NOT directly influenced by local wind patterns in agricultural areas?				
Ans A). External characteristic feature of crops		B). Support for crop health through ventilation		C). Control of field moisture levels
D). Regulation of soil temperature				
Correct Answer: A				
Q.72 An element has two isotopes with mass numbers 35 and 37. Which property remains the same in both isotopes?				
Ans A). Mass number	B). Atomic mass	C). Number of neutrons	D). Number of protons	Correct Answer: D

Q.73 If a cyclist covers a distance of 'D' kilometers in 'T' hours, which formula correctly represents the average speed? Ans A). Average speed = D - T B). Average speed = D x T C). Average speed = T/D D). Average speed = D/T Correct Answer: D
Q.74 Which of the following explains how the development of the microscope contributed to changes in biological classification systems? Ans A). It confirmed that all organisms belonged to either plants or animals B). It reduced the need to classify organisms into separate kingdoms. C). It allowed scientists to observe and identify microorganisms previously unknown D). It enabled scientists to classify organisms using only visible characteristics Correct Answer: C
Q.75 A ball is dropped from a height and falls freely under gravity for 4 seconds. What is the velocity of the ball after 4 seconds? (Take g = 10 m/s²) Ans A). 80 m/s B). 10 m/s C). 40 m/s D). 20 m/s Correct Answer: C
Q.76 In a seesaw, where should the load be placed relative to the fulcrum for easier lifting? Ans A). Exactly at the same point as the fulcrum B). At the same distance as effort is from the fulcrum C). Closer to the fulcrum D). Farther from the fulcrum Correct Answer: C
Q.77 When two bodies of different masses are accelerated at the same rate, what can be inferred about the forces acting on them according to Newton's second law? Ans A). Force is not dependent on mass when acceleration is constant. B). Both bodies experience equal force because acceleration is the same. C). The heavier body experiences a greater force due to its larger mass. D). The lighter body experiences more force because it moves faster. Correct Answer: C
Q.78 একটি খোলা ফ্লাস্কে (open flask) কোনো বিক্রিয়া ঘটার ফলে যদি পর্যবেক্ষণকৃত ভর হ্রাস পায়, তাহলে ভরের সংরক্ষণ সূত্রের সঙ্গে নিচের কোন ব্যাখ্যাটি সবচেয়ে ভালোভাবে সামঞ্জস্যপূর্ণ? Ans A). কিছু ভর শক্তিতে রূপান্তরিত হয়েছে B). ফ্লাস্ক থেকে কোনো গ্যাস বেরিয়ে গেছে C). ভরের সংরক্ষণ সূত্রটি এক্ষেত্রে অকার্যকর D). বিক্রিয়ার পর বিক্রিয়কগুলো হালকা হয়ে যায় Correct Answer: B
Q.79 A student pushes a 4 kg cart so that its velocity changes from 2 m/s to 6 m/s in 2 seconds. What is the magnitude of the force applied on the cart? Ans A). 16 N B). 4 N C). 2 N D). 8 N Correct Answer: D
Q.80 When a ball falls freely from a height, what happens to its potential and kinetic energy according to the law of conservation of energy? Ans A). Both energies decrease at the same time B). Both energies are lost as heat immediately C). Potential energy decreases and kinetic energy increases D). Potential energy increases and kinetic energy decreases Correct Answer: C
Q.81 A chemist is preparing a compound that contains sodium (Na), chlorine (Cl), and oxygen (O) in the formula NaClO₃. If the atomic masses are: Na = 23 u, Cl = 35.5 u, and O = 16 u, then calculate the formula unit mass of NaClO₃? Ans A). 74.5 u B). 106.5 u C). 87.5 u D). 119.5 u Correct Answer: B
Q.82 মোটরগাড়িতে পেট্রলের তুলনায় ইথানলকে অপেক্ষাকৃত পরিচ্ছন্ন জ্বালানি হিসেবে বিবেচনা করা হয় কেন? Ans A). পেট্রলের চেয়ে ইথানলে প্রতি গ্রামে বেশি শক্তি থাকে B). দহনের সময় ইথানল কম ক্ষতিকর নির্গমন তৈরি করে C). পেট্রলের চেয়ে ইথানল সংরক্ষণ ও পরিবহন করা বেশি কঠিন D). ইথানল ইঞ্জিনের যন্ত্রাংশে বেশি ক্ষয় ঘটায় Correct Answer: B
Q.83 Which local wind typically occurs at night because of the cooling of land faster than water? Ans A). Monsoon B). Land breeze C). Westerlies D). Sea breeze Correct Answer: B
Q.84 In a distance-time graph, two vehicles are represented by two lines: one is a straight line inclined to the time axis, and the other is a curved line with increasing steepness. What does this suggest about the motion of the two vehicles? Ans A). One vehicle is stationary while the other moves B). One vehicle moves at constant speed, the other accelerates C). Both vehicles move at the same speed throughout D). Both vehicles move at changing speeds throughout Correct Answer: B

Q.85 Which of the following statements best describes a property of a colloid in relation to mixtures and solutions?

Ans A). A colloid separates into layers when filtered. B). A colloid scatters light but does not settle on standing.
C). A colloid neither scatters light nor settles on standing. D). A colloid settles on standing but does not scatter light. **Correct Answer: B**

Q.86 An electric motor is rated at 250 W. In a physics experiment, it is used to lift a load performing 7500 J of work. What does the rating indicate in this context?

Ans A). The motor can only do a maximum of 7500 J of work ever B). The motor applies 250 N of force for 30 seconds
C). The motor stores 250 J of energy to do work D). The motor can perform 7500 J of work in 30 seconds at full power **Correct Answer: D**

Q.87 Which charged particle determines the atomic number of an element?

Ans A). Mass of the whole atom B). Neutron present in nucleus C). Electron in outermost shell D). Proton present in nucleus
Correct Answer: D

Q.88 A body of mass 2 kg is held at a height of 5 m. Its potential energy is _____.
(Take $g=10\text{ m/s}^2$)

Ans A). 10 J B). 5 J C). 50 J D). 100 J **Correct Answer: D**

Q.89 A mining company discovers a new ore containing a metal from the top of the reactivity series. They want to extract this metal efficiently and economically. Which extraction method should they use?

Ans A). Electrolysis of molten ore B). Roasting in air C). Carbon reduction with coke D). Leaching with cyanide **Correct Answer: A**

Q.90 How does the atmosphere help maintain suitable temperatures for life on Earth?

Ans A). It allows all heat to escape into space quickly B). It partly absorbs the incoming solar radiations
C). It cools the planet by reflecting all sunlight D). It blocks all heat from reaching the surface **Correct Answer: B**

Section : **General Awareness**

Q.91 Which of the following organisations launched the report titled "Strategic Roadmap for Making Ayurveda Global" in July 2026?

Ans A). The National Medical Commission (NMC) B). NITI Aayog C). Indian Council of Medical Research (ICMR) D). Ministry of AYUSH
Correct Answer: B

Q.92 What was the theme of the 63rd National Maritime Day Celebrations, observed in April 2026?

Ans A). Sustainable Seas, Prosperous Nation B). Maritime India, Empowering Progress C). Strengthening India's Maritime Future
D). Blue Economy for Viksit Bharat **Correct Answer: B**

Q.93 According to the publication titled “Children in India 2025” report, released by the Ministry of Statistics and Programme Implementation (MoSPI), the infant mortality rate (IMR) decreased from 44 per 1,000 live births in 2011 to what figure in 2023?

Ans A). 35 per 1,000 live births B). 30 per 1,000 live births C). 25 per 1,000 live births D). 15 per 1,000 live births **Correct Answer: C**

Q.94 In June 2026, Ethan Vaz achieved the title of India's 96th Chess Grandmaster after securing his final Grandmaster norm at which tournament?

Ans A). Tata Steel Chess Tournament B). Sarajevo GM Mix Tournament C). Prague Masters D). Reykjavik Open **Correct Answer: B**

Q.95 The Khelo India Winter Games 2026 was held in February 2026 in which of the following states/union territories?

Ans A). Arunachal Pradesh B). Himachal Pradesh C). Jammu & Kashmir D). Uttarakhand **Correct Answer: C**

Q.96 In January 2026, DRDO successfully conducted a long-duration ground test of an Actively Cooled Scramjet Engine for the development of _____.

Ans A). Unmanned combat aerial vehicles B). Hypersonic cruise missiles C). Reusable launch vehicles D). Ballistic missile defence systems
Correct Answer: B

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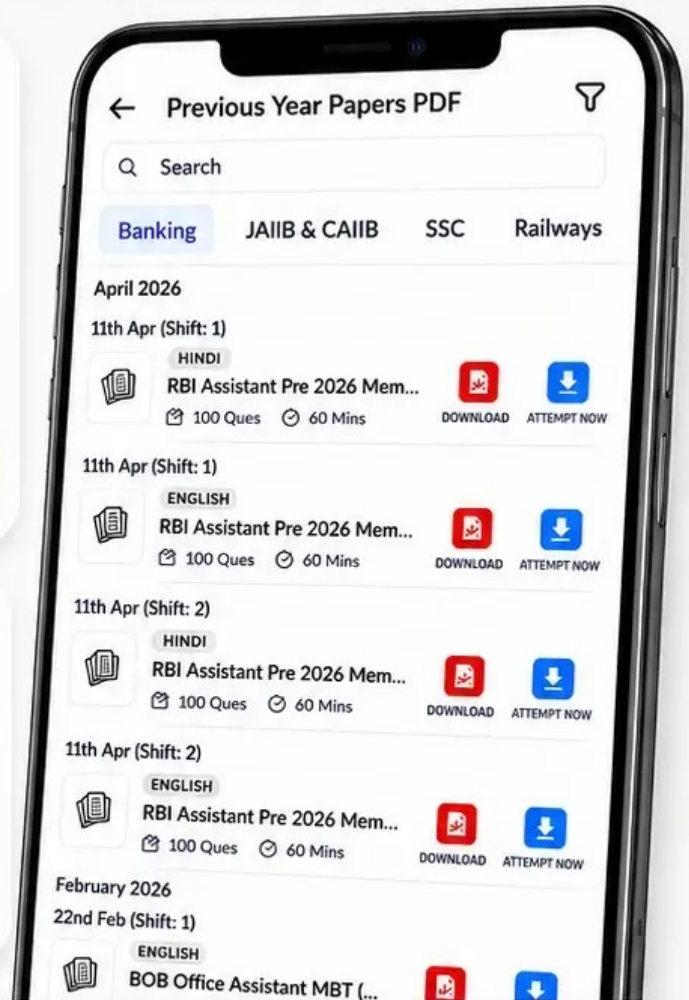
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Q.97	Which dedicated task force was constituted by SEBI in May 2026 to address AI-driven cybersecurity risks?	Ans A). Secure Markets Mission	B). AI Shield India	C). Cyber Rakshak	D). cyber-suraksha.ai	Correct Answer: D
Q.98	Which Indian state has launched the Pandit Deendayal Upadhyay Poverty-Free Village Scheme (Pandit Deendayal Upadhyay Gramin Panchayat Vikas Yojana) in 2025?	Ans A). Uttrakhand	B). Bihar	C). Uttar Pradesh	D). Rajasthan	Correct Answer: D
Q.99	In April 2026, who among the following released the book ‘Tides of Time: Bharat’s History through Murals in Parliament’?	Ans A). Harivansh Narayan Singh	B). Jagdeep Dhankhar	C). Droupadi Murmu	D). C. P. Radhakrishnan	Correct Answer: D
Q.100	In May 2026, the exhibition 'Geographies of Distance: Remembering Home', presented at the 61st International Art Exhibition – La Biennale di Venezia, was curated by:	Ans A). Dr. Amin Jaffer	B). Alwar Balasubramaniam	C). Ranjani Shettar	D). Bose Krishnamachari	Correct Answer: A

