



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	08/10/2026
Test Time	4:30 PM - 6:00 PM
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	A tank is provided with two inlet pipes, A and B, and one outlet pipe, C. Pipe A alone can fill the tank completely in 12 hours, while pipe B alone can do so in 18 hours. Pipe C, on the other hand, can empty the full tank in 36 hours. Initially, all three pipes are opened simultaneously and allowed to operate together. After 4 hours of operation, the outlet pipe C is closed, while the inlet pipes A and B continue to function. Determine how much additional time (in hours) will be required to fill the tank completely.	Ans A). 3	B). 5	C). 4	D). 6	Correct Answer: C
Q.2	Which of the following is NOT correct regarding the properties of a circle?	Ans A). The length of a chord decreases when the chord is drawn near to centre.	B). The largest chord of the circle with radius 7 units has length 14 units.	C). The ratio of perimeter and diameter of a circle is constant.	D). The largest chord divides the circle in two equal halves.	Correct Answer: A
Q.3	Mohit sold a watch to Raman at a profit of 8% and Raman sold it to Karan at a loss of 5%. If Karan pays ₹1,710 for it, for how much did Mohit purchase it? (Rounded off to the nearest integer)	Ans A). ₹1,617	B). ₹1,697	C). ₹1,667	D). ₹1,637	Correct Answer: C
Q.4	The amount on a sum of ₹2500 at 18% per annum compound interest, compounded annually, in 2 years will be:	Ans A). ₹4198	B). ₹3481	C). ₹3365	D). ₹4116	Correct Answer: B
Q.5	The 7-digit number 236A3B9 is divisible by 3. Find the least possible value of (A+B).	Ans A). 7	B). 1	C). 4	D). 10	Correct Answer: B
Q.6	The sides of a triangle are in the ratio 13 : 14 : 15 and its perimeter is 42 cm. What is the area of the triangle?	Ans A). 168 cm ²	B). 120 cm ²	C). 84 cm ²	D). 42 cm ²	Correct Answer: C
Q.7	A man has invested ₹57500 at a rate of 8% per annum simple interest for 3 years. Find the amount (in ₹) that he will receive after 3 years.	Ans A). 71300	B). 14800	C). 13800	D). 72300	Correct Answer: A



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Q.8	If the surface area of sphere is 616 cm^2 , find its radius. $\left(\text{Use } \pi = \frac{22}{7}\right)$			
Ans A).	6 cm	B).	4 cm	Correct Answer: C
		C).	7 cm	
		D).	5 cm	
Q.9	Two years ago from now, Hitesh was 6 times as old as Jitesh. After 2 years from now, he will be 2 times as old as Jitesh will then be. The present age of Hitesh (in years) is:			
Ans A).	5	B).	8	Correct Answer: B
		C).	7	
		D).	6	
Q.10	A car travels one-third of a distance at 30 km/h, one-third at 60 km/h, and the remaining one-third at 90 km/h. Find the average speed (in km/h).			
Ans A).	540/11	B).	536/11	Correct Answer: A
		C).	545/11	
		D).	548/11	
Q.11	A shopkeeper buys 15 notebooks at ₹20 each and sells them all for a total of ₹360. What is the profit or loss percentage?			
Ans A).	Loss of 20%	B).	Profit of 25%	Correct Answer: C
		C).	Profit of 20%	
		D).	Loss of 15%	
Q.12	The length and breadth of a rectangular tank are such that when each is increased by 6 m, their ratio becomes 7 : 5. When each is decreased by 8 m, their ratio becomes 1 : 3. Find the breadth of the tank.			
Ans A).	2.75 meters	B).	3.00 meters	Correct Answer: A
		C).	2.25 meters	
		D).	2.50 meters	
Q.13	A shopkeeper marks up the price of a bag by $(3y + 8)\%$ above its cost price. He offers a 25% discount on the marked price and obtains a 2% profit. What is the value of y? (Rounded off to the nearest integer)			
Ans A).	7	B).	10	Correct Answer: C
		C).	9	
		D).	8	
Q.14	Find the value of $\left[2^{-1}\left\{\left(\frac{3}{4}\right)^2 + \left(\frac{4}{3}\right)^{-2}\right\}^{-1}\right]$.			
Ans A).	$\frac{1}{3}$	B).	$\frac{14}{9}$	Correct Answer: C
		C).	$\frac{4}{9}$	
		D).	$\frac{2}{9}$	
Q.15	Two trains start simultaneously from two stations and travel towards each other at speeds of 72 km/hr and 90 km/hr. When they meet, one train has traveled 72 km more than the other. Find the distance (in km) between the two stations.			
Ans A).	696	B).	712	Correct Answer: D
		C).	674	
		D).	648	
Q.16	The median of the numbers, 5, 2x, 14, 18, 21 is 14. If x is positive integer, then number of possible values of x, is:			
Ans A).	5	B).	3	Correct Answer: C
		C).	7	
		D).	4	
Q.17	If $x : 12 = 5 : 6$, what is the value of x?			
Ans A).	8	B).	12	Correct Answer: D
		C).	14	
		D).	10	
Q.18	In triangle PQR, points S and T lie on PQ and PR, respectively, such that $ST \parallel QR$. If $PS : SQ = 4 : 7$ and $PT = 12\text{ cm}$, then PR is equal to:			
Ans A).	30 cm	B).	27 cm	Correct Answer: C
		C).	33 cm	
		D).	24 cm	
Q.19	If 20% of k is 10 less than 1200% of 25, then k is:			
Ans A).	1490	B).	1430	Correct Answer: D
		C).	1410	
		D).	1450	
Q.20	The value of $\frac{\sin\theta}{\sec\theta + \tan\theta - 1} + \frac{\cos\theta}{\operatorname{cosec}\theta + \cot\theta - 1}$ is			
Ans A).	-1	B).	2	Correct Answer: C
		C).	1	
		D).	0	

Q.21	Simplify: $\frac{2\sin^2 A - \sin^4 A + \cos^4 A}{3\sin^4 A - 2\sin^6 A + 3\cos^4 A - 2\cos^6 A}$			
Ans A). 1	B). secA	C). sinA	D). -1	Correct Answer: A
Q.22	In a distribution, the mode is 18 and the mean is 22. Find the median. (Rounded off to 2 decimal places.)			
Ans A). 20.33	B). 21.33	C). 20.67	D). 21.00	Correct Answer: C
Q.23	The average sale of cars by a dealer per day in the month of March, other than on Saturdays and Sundays, is 136. The average sale of cars per day on Sundays is 138. What is the average sale of cars per day on Saturdays, if the first Saturday is on the 3rd of March and average sale of cars per day for the whole month is 199?			
Ans A). 528	B). 520	C). 525	D). 521	Correct Answer: C
Q.24	For a certain principal and annual rate of interest, the difference between the compound interest (compounded annually) and the simple interest after 2 years is ₹720. If both the principal and the annual rate of interest are doubled, what will be the new difference between the compound interest and the simple interest after 2 years?			
Ans A). ₹5,760	B). ₹2,880	C). ₹5,040	D). ₹4,320	Correct Answer: A
Q.25	Two pipes, Pipe A and Pipe B, can fill a tank in 8 hours and 12 hours, respectively. If both pipes are opened together, in how many hours will the tank be filled?			
Ans A). 5.5 hours	B). 4.8 hours	C). 10.6 hours	D). 6.4 hours	Correct Answer: B

Section : General Intelligence and Reasoning

Q.26	GDSV is related to LBXT in a certain way based on the English alphabetical order. In the same way, QZCR is related to VXHP. To which of the given options is AVMN related to, following the same logic?			
Ans A). ESQM	B). FTRL	C). GUSK	D). GSQL	Correct Answer: B
Q.27	Each vowel in the word COMPUTE is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. Which of the following letters will be fourth from the left in the new group of letters thus formed?			
Ans A). P	B). H	C). J	D). O	Correct Answer: D
Q.28	The position(s) of how many letters will remain unchanged if each letter in the word SKYLINE is arranged in alphabetical order?			
Ans A). One	B). None	C). Three	D). Two	Correct Answer: A
Q.29	8 is related to 63 following a certain logic. Following the same logic, 10 is related to 99. To which of the following is 12 related, following the same logic? (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)			
Ans A). 144	B). 146	C). 143	D). 145	Correct Answer: C
Q.30	Seven boxes, A, B, C, D, G, H and I, are kept one over the other, but not necessarily in the same order. D is kept second from the bottom. Only three boxes are kept between D and C. I is kept at one of the positions below D. Only H is kept between C and B. A is kept at one of the positions above C. How many boxes are kept between G and C?			
Ans A). One	B). Two	C). Four	D). Three	Correct Answer: B
Q.31	Z is the mother of N. N is the sister of T. O is the father of U. U is the husband of T. How is Z related to O?			
Ans A). Sister	B). Mother	C). Wife's sister	D). Son's wife's mother	Correct Answer: D

Q.32 What should come in place of ‘?’ in the given series? 28, 32, 40, 52, 68 ?			
Ans A). 86	B). 88	C). 89	D). 87
Correct Answer: B			
Q.33 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. Question: Five projects – Orion, Nimbus, Vertex, Pulse and Zenith – were completed on different days from Monday to Friday of the same week. On which day was Pulse completed? Statements: (I) Pulse was completed one day before Zenith. (II) Zenith was completed on Friday.			
Ans A). Data in Statement I alone is sufficient to answer the question while data in Statement II is not B). Both statements I and II together are NOT sufficient to answer the question C). Data in Statement II alone is sufficient to answer the question while data in Statement I is not 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.34 What will come in the place of ‘?’ in the following equation, if ‘+’ and ‘-’ are interchanged and ‘x’ and ‘÷’ are interchanged? $105 - 90 \times 6 \div 3 + 110 = ?$			
Ans A). 42	B). 45	C). 40	D). 44
Correct Answer: C			
Q.35 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: A, B, C, D and E are sitting around a circular table, facing the centre. Who sits to the immediate right of B? Statements: (I) B sits to the immediate right of A. C sits to the immediate left of E. (II) D sits second to the right of A. C sits to the immediate right of D.			
Ans A). Data in statement I alone is sufficient to answer the question while data in statement II is not. B). Data in statements I and II together are NOT sufficient to answer the question. C). Data in statement II alone is sufficient to answer the question while data in statement I is not. D). Data in statements I and II together are sufficient to answer the question.			
Correct Answer: D			
Q.36 Three of the following four letter-clusters are alike in a certain way and thus form a group. Which is the letter-cluster that does NOT belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)			
Ans A). MKG	B). GEA	C). OMI	D). SPM
Correct Answer: D			
Q.37 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. The product of floors on which D and C live is 10. A lives immediately above E. The sum of floors on which B and D live is 11. What is the product of floors on which A and C live?			
Ans A). 2	B). 6	C). 4	D). 8
Correct Answer: D			
Q.38 In a certain code language, ‘chest wife sip’ is coded as ‘wv ua nv’ and ‘sip unit ghost’ is coded as ‘ef wv ie’. How is ‘sip’ coded in the given language?			
Ans A). wv	B). ua	C). ef	D). nv
Correct Answer: A			
Q.39 What should come in place of ‘?’ in the given series? 9 14 21 30 41 ?			
Ans A). 52	B). 54	C). 49	D). 50
Correct Answer: B			

Q.40 In this question, a group of number/symbol 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 codes for the respective Number/Symbol are to be followed directly as given in the table. Number/symbol 4 @ 1 # 8 % 3 & 6 \$ 2 + 9 5 Code J M H T A P K F B R D U L Q Conditions – (i) If the first and last elements are numbers and the first element is a smaller number than the last element, the first element is to be coded with the code of the last element. (ii) If the second and fourth elements are symbols, interchange the codes of the second and fourth elements. (iii) If the third element is an odd number, the third element is to be coded as ©. What is the code for the following group of numbers? 28369				
Ans A). LAKBD	B). LA©BL	C). DAKBL	D). LAKBL	Correct Answer: B
Q.41 Seven people, L, M, N, O, X, Y and Z are sitting in a row, facing north. N sits third to the left of Y. O sits second to the left of N. X sits to the immediate right of Z. More than three people sit between X and L. Who sits exactly between O and N?				
Ans A). X	B). L	C). M	D). Z	Correct Answer: C
Q.42 Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete? DGJL GJMO ? MPSU PSVX				
Ans A). JMSP	B). JMPR	C). JMRP	D). JMPS	Correct Answer: B
Q.43 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged? 231 ÷ 3 - 721 x 7 + 24 = ?				
Ans A). 774	B). 772	C). 771	D). 773	Correct Answer: B
Q.44 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)				
Ans A). OQN	B). FIE	C). MOL	D). ACZ	Correct Answer: B
Q.45 What will come in the place of '?' in the following equation, if '+' and 'x' are interchanged and '-' and '÷' are interchanged? 7 x 32 - 4 + 5 ÷ 12 = ?				
Ans A). 63	B). 87	C). 17	D). 35	Correct Answer: D
Q.46 In a certain code language, 'TERM' is coded as '3812' and 'RATE' is coded as '1438'. What is the code for 'A' in the given code language?				
Ans A). 4	B). 3	C). 1	D). 2	Correct Answer: A
Q.47 Select the pair which follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern. SUX-TVY GIL-HJM				
Ans A). TVY-TWY	B). TUW-UWZ	C). TUW-TVY	D). TVY-UWZ	Correct Answer: D
Q.48 Mr. Z starts from Point Y and drives 3 km towards South. He then takes a left turn, drives 6 km, turns left and drives 9 km. He then takes a left turn and drives 15 km. He takes a final left turn, drives 6 km and stops at Point Z. How far (shortest distance) and towards which direction should he drive in order to reach Point Y again? (All turns are 90 degrees turns unless specified)				
Ans A). 2 km towards North	B). 7 km towards South	C). 5 km towards East	D). 9 km towards East	Correct Answer: D

Q.49

Refer to the following series and answer the question.
(Left)
I T A H K I J B A S I K P A H C L E F I R
A H (Right)

How many letters are there in the English alphabetical order between the letter which is seventh from the right end and third from the left end of the series?

Ans A). eleven

B). nine

C). twelve

D). ten

Correct Answer: D

Q.50

Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.

(Left) E S Y C X Z O W Y O N F H G U K M H G U K T V A Q E F I H G K (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). None

B). Two

C). Three

D). One

Correct Answer: B

Section : General Science

Q.51

What is the charge and location of an electron in an atom?

Ans A). Neutral, inside nucleus

B). Negative, inside nucleus

C). Negative, outside nucleus

D). Positive, inside nucleus

Correct Answer: C

Q.52

Which of the following is a reason, scientists classify living organisms?

Ans A). To organize organisms by similarities and differences

B). To ensure that all species become similar

C). To make all organisms genetically identical

D). To change the natural habitat of organisms

Correct Answer: A

Q.53

A child's near point is 50 cm, but normal near point for a human eye is 25 cm. What is the required power of the lens to correct the child's near point?

Ans A). -1.0 D

B). +2.0 D

C). -2.0 D

D). +1.0 D

Correct Answer: B

Q.54

A man carries a heavy bag horizontally at a uniform speed across a level floor. What is the work done by the force exerted by the man on the bag in the direction of motion?

Ans A). The work done is zero because the force is perpendicular to the displacement.

B). The work done is negative because the bag is heavy.

C). The work done is negative since the force resists motion.

D). The work done is positive because the man carries the bag forward.

Correct Answer: A

Q.55

If you shout to your friend who is at the same distance from you across a playground and is also touching the other end of a steel rail, through which path will your friend hear your voice first, and why?

Ans A). Across the playground because sound does not travel efficiently through steel.

B). Through the steel rail because sound travels much faster in solids than in air.

C). Across the playground because sound travels more easily through air than through solids.

D). Through the steel rail because solids make every sound louder than air.

Correct Answer: B

Q.56

A student places an object 30 cm in front of a convex lens of focal length 15 cm. Based on the lens formula, where will the image be formed?

Ans A). 15 cm on the other side of the lens

B). 60 cm on the other side of the lens

C). 45 cm on the other side of the lens

D). 30 cm on the other side of the lens

Correct Answer: D

Q.57

Which meristem is located at the base of certain plants and helps them regenerate after cutting?

Ans A). Girth Meristem

B). Lateral Meristem

C). Apical Meristem

D). Intercalary Meristem

Correct Answer: D

Q.58

A scientist is studying disfunctioning of smooth endoplasmic reticulum in animal cells. Which cellular process is most likely to be directly affected by this change?

Ans A). Cell division and chromosome separation

B). Energy production and ATP synthesis

C). Protein synthesis and modification

D). Synthesis of lipids and detoxification of drugs

Correct Answer: D

Q.59	A cyclist covers the first 6 kilometers of her journey in 20 minutes and the next 9 kilometers in 30 minutes. What is her average speed for the entire trip in kilometers per hour (km/h)?			
Ans	A). 20 km/h	B). 12 km/h	C). 15 km/h	D). 18 km/h
Correct Answer: D				
Q.60	To carry nerve impulses over long distances, a neural prosthetic should mimic which part of a neuron?			
Ans	A). The cell body containing the nucleus	B). The synaptic terminals at the end of the neuron	C). The branching dendrites near the cell body	D). The elongated axon with myelin sheath
Correct Answer: D				
Q.61	Which scenario results in zero work done by a constant force?			
Ans	A). A force acts against the direction of displacement	B). A force acts at an acute angle to the direction of motion	C). A force acts parallel to the direction of motion	D). A force acts perpendicular to the direction of motion
Correct Answer: D				
Q.62	If a constant force acts in the direction of motion on an object, what does the work-energy theorem say about its kinetic energy?			
Ans	A). The object's kinetic energy stays the same.	B). The object's kinetic energy increases.	C). Only the potential energy changes.	D). The object's kinetic energy decreases.
Correct Answer: B				
Q.63	Which of the following is NOT a branched alkane?			
Ans	A). N-pentane	B). Neopentane	C). Isopentane	D). Isobutane
Correct Answer: A				
Q.64	Which of the following is a major reason for the rich biodiversity found in the Indian Himalayas?			
Ans	A). Even distribution of rainfall	B). Active vegetation and farming	C). Variation in altitude and climate	D). Consistent soil fertility across the nation
Correct Answer: C				
Q.65	Why is it essential for an organism's body to carry out life processes during periods of rest?			
Ans	A). To reset the brain's functions	B). To speed up reproduction	C). To prepare the body for sudden movement	D). To ensure vital body functions continue for survival
Correct Answer: D				
Q.66	Why does the number of protons in an atom never change during chemical reactions?			
Ans	A). Protons combine with electrons to form neutrons	B). Protons move to other atoms easily	C). Protons stay in the electron cloud	D). Protons are tightly bound in the nucleus
Correct Answer: D				
Q.67	In a reflex arc, the receptor first detects the _____.			
Ans	A). Response	B). Stimulus	C). Hormone	D). Effector
Correct Answer: B				
Q.68	Which of the following plant groups includes a green mat-like plant growing on a damp wall that lacks true roots and vascular tissues?			
Ans	A). Thallophyta	B). Lichen	C). Pteridophyta	D). Bryophyta
Correct Answer: D				
Q.69	Which of the following options correctly describes a suspension?			
Ans	A). The particles in a suspension scatter light but do not settle.	B). Suspensions are stable and do not require stirring.	C). Suspensions are always transparent like true solutions.	D). The particles in a suspension settle over time and can be separated by filtration.
Correct Answer: D				
Q.70	In reactivity series metals are arranged in decreasing order of their activity. The metal which lies at the top of series is:			
Ans	A). Aluminium	B). Potassium	C). Magnesium	D). Sodium
Correct Answer: B				
Q.71	The unit cell of the nervous system is called as _____.			
Ans	A). Neuron	B). Axon	C). Muscle fibre	D). Dendrite
Correct Answer: A				

Q.72 A student records the motion of a ball that travels from point Q to point R, then returns to point S, all along the same straight path. If the ball covers 70 meters to reach R from Q and then 30 meters from R to S, which best represents the physical difference between the total path length and displacement for this journey?

- Ans A). The path length is the total distance travelled, while displacement is the net straight-line distance from Q to S.
B). The path length and displacement are equal because the motion occurs along a straight path.
C). The displacement is always greater than the path length because it measures the shortest route.
D). The path length depends only on the final position, while displacement depends on the entire journey.

Correct Answer: A

Q.73 When a straight conductor of fixed length is placed in a uniform magnetic field and the current through it is doubled, the force on the conductor also doubles. Which of the following underlying principles explains this proportional relationship?

- Ans A). The force is inversely proportional to the current
B). The force is determined by the direction of the field
C). The force depends only on the conductor's length
D). The force is directly proportional to the current

Correct Answer: D

Q.74 Which method can best be used to confirm the presence of a colloidal mixture due to the Tyndall effect?

- Ans A). Allowing the mixture to stand undisturbed for several hours
B). Shining a beam of light through the mixture and observing scattered light
C). Filtering the mixture using filter paper
D). Heating the mixture to evaporate the solvent

Correct Answer: B

Q.75 How can a persistent warmer atmosphere alter precipitation patterns within the water cycle?

- Ans A). It will result in less rainfall worldwide
B). It can cause more intense and irregular rainfall events
C). It will lead to more snowfall in all regions
D). It will always increase gentle rainfall everywhere

Correct Answer: B

Q.76 Why are saturated hydrocarbons generally unreactive under normal conditions?

- Ans A). They contain strong sigma (σ) bonds that require high energy to break.
B). They contain weak pi (π) bonds that break easily.
C). They react spontaneously with oxygen at room temperature.
D). They are highly polar and dissolve in water, preventing reactions.

Correct Answer: A

Q.77 A ray of light enters a glass prism from air. Which change occurs to the speed of the light as it enters the prism?

- Ans A). The speed of light decreases inside the prism
B). The speed of light increases inside the prism
C). Light moves infinitely fast in glass
D). The speed of light remains unchanged

Correct Answer: A

Q.78 A circular coil of radius r carries current I . If the number of turns of the coil is doubled (keeping radius and current same), the magnetic field at the centre will _____.

- Ans A). Double
B). Reduce to half
C). Remain unchanged
D). Become four times

Correct Answer: A

Q.79 Which of the following indicators turns red in acidic solution and blue in basic solution?

- Ans A). Methyl orange
B). Phenolphthalein
C). Turmeric
D). Litmus

Correct Answer: D

Q.80 Which among the following does NOT play a direct role in causing surface ocean currents?

- Ans A). Amount of rainfall over the ocean
B). Temperature of ocean surface
C). Rotation of the Earth
D). Wind blowing across the ocean

Correct Answer: A

Q.81 A concave lens has a focal length of 30 cm. At what distance should the object from the lens be placed so that it forms an image at 20 cm from the lens?

- Ans A). 80 cm behind the lens
B). 60 cm in front of the lens
C). 20 cm behind the lens
D). 40 cm in front of the lens

Correct Answer: B

Q.82 Which of the following is the reason for having a scientific system of classifying living organisms?

- Ans A). To avoid confusion in naming and grouping organisms
B). To enhance reproduction in organisms
C). To improve crop production
D). To measure the lifespan of organisms

Correct Answer: A

Q.83	A student observes a decomposition reaction where a pale yellow powder changes into a red-brown solid and a colourless gas upon heating. Which compound was used?			
Ans	A). Lead nitrate	B). Zinc carbonate	C). Silver bromide	D). Potassium permanganate
	Correct Answer: A			
Q.84	An atom of phosphorus has an electronic configuration of 2, 8, 5. What is its valency and how does it attain stability?			
Ans	A). Phosphorus has a valency of 5, equal to the number of valence electrons. B). Phosphorus has a valency of 5, as it loses five electrons. C). Phosphorus has a valency of 3, as it gains three electrons to achieve a stable configuration. D). Phosphorus has a valency of 3, as it loses three electrons to achieve stability.			
	Correct Answer: C			
Q.85	Why are electrons not included in the calculation of an atom's mass number?			
Ans	A). Electrons are heavier than protons and neutrons B). Electrons have negligible mass compared to protons and neutrons C). Electrons outnumber protons and neutrons D). Electrons determine the atom's charge only			
	Correct Answer: B			
Q.86	If the object is placed at the focus of a convex lens, the image will be:			
Ans	A). at infinity, real and highly enlarged B). between F and 2F, real and inverted C). at infinity, virtual and reduced D). at 2F, real and of same size			
	Correct Answer: A			
Q.87	A prism produces a spectrum when white light passes through it. If the refractive index for red light is 1.50 and for violet light is 1.54, what does this suggest about the behavior of the different colors in the prism?			
Ans	A). Both colors travel without bending B). Red light bends more than violet light C). Violet light bends more than red light D). Both colors bend equally			
	Correct Answer: C			
Q.88	Which method is commonly used to separate a pure solid from its solution in a homogeneous mixture?			
Ans	A). Distillation B). Decantation C). Crystallization D). Filtration			
	Correct Answer: C			
Q.89	Which statement best describes why ethanol is considered an important fuel?			
Ans	A). It is mainly used for making plastics in the industry. B). It burns cleanly and produces less smoke compared to many traditional fuels. C). It is primarily used as a food preservative. D). It is the only liquid fuel used in vehicles worldwide.			
	Correct Answer: B			
Q.90	Which of the following real-life scenarios best demonstrates how human activity can reduce biodiversity in an ecosystem?			
Ans	A). Seasonal migration of birds B). Deforestation causing species loss C). Natural succession in a grassland D). Animals moving to a new region			
	Correct Answer: B			

Section : General Awareness

Q.91	The Union Budget 2026–27 proposed upgrading which of the following institutions into the National Institute of Hospitality?			
Ans	A). Indian Institute of Tourism and Travel Management B). National Council for Hotel Management and Catering Technology C). National Skill Development Corporation D). Indian Institute of Food Processing Technology			
	Correct Answer: B			
Q.92	Which of the following conducted the successful flight-test of the Pinaka Long Range Guided Rocket on July 8, 2026?			
Ans	A). Defence Research & Development Organisation B). Hindustan Aeronautics Limited C). Indian Army D). Bharat Dynamics Limited			
	Correct Answer: A			
Q.93	Which organisation organised the Regional AIM SUMVAAD–North East Chapter 2026 in July 2026?			
Ans	A). Indian Space Research Organisation (ISRO) B). Atal Innovation Mission (AIM), NITI Aayog C). Defence Research and Development Organisation (DRDO) D). National Skill Development Corporation (NSDC)			
	Correct Answer: B			
Q.94	The 13th edition of the India–Kyrgyzstan Joint Special Forces Exercise KHANJAR, held in February 2026, commenced in which state?			
Ans	A). Uttarakhand B). Sikkim C). Assam D). Arunachal Pradesh			
	Correct Answer: C			

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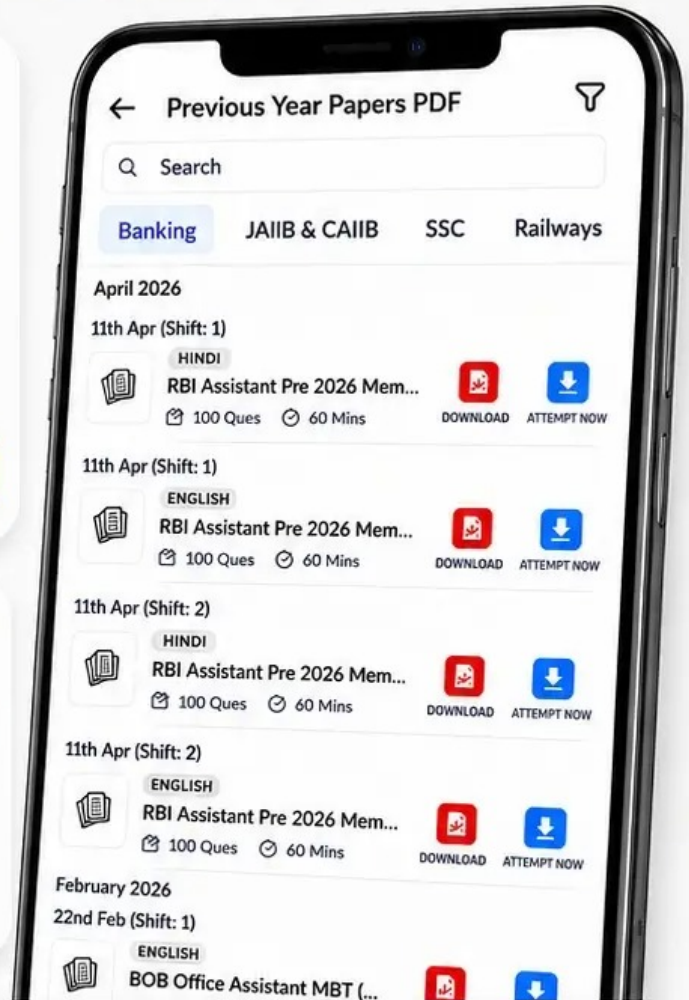
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Q.95 In July 2026, the Defence Acquisition Council (DAC) approved the procurement of the AKASH TARANG system for which armed force? Ans A). Indian Coast Guard B). Indian Navy C). Indian Army D). Indian Air Force Correct Answer: C
Q.96 According to the Union Budget 2026–27, the Bio-Pharma SHAKTI scheme has been proposed with an outlay of _____. Ans A). ₹12,000 crore over five years B). ₹15,000 crore over five years C). ₹10,000 crore over five years D). ₹8,000 crore over five years Correct Answer: C
Q.97 Which initiative of the Union Ministry of Panchayati Raj received the Gold Award at the National Awards for e-Governance (NAeG) 2026 under the category 'Digital Transformation by Use of Data Analytics in Digital Platforms by Central Ministries/States/UTs'? Ans A). Panchayat Advancement Index B). AuditOnline Platform C). e-GramSwaraj Portal D). SVAMITVA Scheme Correct Answer: A
Q.98 In which of these states was “CLAP for Children” launched in September 2025 to make cities safer and more supportive for children? Ans A). Telangana B). Maharashtra C). Karnataka D). Andhra Pradesh Correct Answer: A
Q.99 Which athlete won the men’s 400m hurdles title at the Indian Athletics Series 2026 in Thiruvananthapuram, Kerala? Ans A). Vignesh B B). Ayyasamy Dharun C). Amit Kumar D). Santhosh Kumar Tamilarasan Correct Answer: D
Q.100 The Memorandum of Understanding (MoU) signed between the Digital India BHASHINI Division (DIBD) and the Reserve Bank of India (RBI) in February 2026 primarily aims at which of the following purposes? Ans A). Integrate language AI models to enhance multilingual banking access and promote financial inclusion B). Develop a comprehensive Central Bank Digital Currency (CBDC) platform for nationwide retail and wholesale digital transactions C). Develop a comprehensive national financial fraud detection and prevention framework to enhance banking security D). Create a unified digital payment gateway to enable seamless interoperability and real-time transactions across banks and financial institutions Correct Answer: A