

रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS सी ई एन आर आर बी - ०३/२०२४ - CEN RRB - 03/2024



* Note	
Subject	RRB JE DMS CMA CS MS
Test Time	9:00 AM - 10:30 AM
Test Date	18/12/2024

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.

Q.1	Write the expanded form of $(6a + 2b + 7c)^2$.
Ans	\times 1. 36a ² + 4b ² + 49c ² + 28ab + 28bc + 84ac
	\times 2. $36a^2 + 4b^2 + 49c^2 + 24ab + 28bc + 94ac$
	\times 3. 36a ² + 4b ² + 49c ² + 24ab + 23bc + 84ac
	\checkmark 4. 36a ² + 4b ² + 49c ² + 24ab + 28bc + 84ac
Q.2	What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and '×' and ' \div ' are interchanged?
	34 ÷ 33 × 22 + 19 - 40 = ?
Ans	X 1.74
	✓ 2.72
	✗ 3.73
	X 4. 70
Q.3	Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets? (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.)
	19-57-114-134; 21-63-126-146
Ans	X 1. 18-54-108-118
	× 2. 17-51-102-112
	X 3. 20-60-120-180
	✔ 4. 16-48-96-116

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Q.4	Tapan starts from Point A and drives 8 km towards the south. He then takes a right turn, drives 5 km, turns right and drives 12 km. He then takes a right turn and drives 9 km. He takes a final right turn, drives 4 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° turns only unless specified.)
Ans	✓ 1.4 km to the west
	X 2. 7 km to the west
	X 3. 5 km to the west
	X 4. 6 km to the west
Q.5	 Which of the following statements is/are correct? 1) Nari Shakti Vandan Adhiniyam was introduced in 2023. 2) Nari Shakti Vandan Adhiniyam ensures 33% reserved seats for women in the Parliament, Legislative Assemblies and Delhi Assembly. 3) Nari Shakti Vandan Adhiniyam will be in force for 10 years only.
Ans	X 1. 1 only
	X 2. 1 and 3
	✓ 3. 2 and 3
	X 4. 1 and 2
Q.6	Which synthetic chemicals are responsible for the depletion of ozone in the atmosphere?
Ans	1. Chlorofluorocarbons (CFCs)
	X 2. Methane
	X 3. Carbon dioxide
	X 4. Nitrogen oxides
Q.7	In the reaction CuO+H ₂ \rightarrow Cu+H ₂ O, the substance reduced is:
Ans	✓ 1. CuO
	X 2. H ₂ O
	X 3. H ₂
	X 4. Cu
Q.8	What is the median of the following data? 78, 33, 59, 56, 61, 36, 48, 42, 97, 57, 62
Ans	X 1. 56.5
	X 2. 58
	✓ 3. 57
	X 4. 57.5
Q.9	Which of the following can be minimised through the implementation of proper sewage treatment?
Ans	X 1. Air pollution
	X 2. Noise pollution
	X 3. Soil pollution
	✓ 4. Water pollution
Q.10	Two numbers are in the ratio 5 : 8. If the first number is increased by 13 and the second number is decreased by 6, then the ratio becomes 4 : 6. What is the sum of the original two numbers?
Ans	X 1. 650
	X 2. 681
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Q.11	Who was appointed as the new head coach of the junior men's hockey team in August 2024?
Ans	X 1. Shankar Lakshman
	X 2. Harmanpreet Singh
	X 3. Prithipal Singh
	✓ 4. PR Sreejesh
Q.12	The curved surface area of a cone is 5544 cm ² , and the diameter is 168 cm. What is its total surface area (in cm ²)? (Use $\pi = \frac{22}{7}$)
Ans	× 1. 27,270
	✓ 2. 27,720
	X 3. 25,530
	X 4. 23,550
Q.13	With which of the following pricing approaches is a product's price equal to its marginal cost?
Ans	X 1. Mark-up pricing
	X 2. Factor pricing
	✓ 3. Marginal cost pricing
	X 4. Price discrimination
Q.14	Write the expanded form of (5a + 4b + 9c) ² .
Ans	\times 1. 25a ² + 16b ² + 81c ² + 44ab + 72bc + 90ac
	\checkmark 2. 25a ² + 16b ² + 81c ² + 40ab + 72bc + 90ac
	\times 3. 25a ² + 16b ² + 81c ² + 40ab + 72bc + 100ac
	\times 4. 25a ² + 16b ² + 81c ² + 40ab + 67bc + 90ac
Q.15	In which year did the amount of ozone begin to drop sharply in the atmosphere?
Ans	X 1. 1970
	 ✓ 2. 1980
	🗙 3. 1960
	X 4. 1950
Q.16	When lead nitrate is heated, it decomposes to form lead monoxide (PbO), nitrogen dioxide (NO₂), and oxygen (O₂). The brown gas seen during the reaction is:
Ans	✓ 1. nitrogen dioxide (NO₂)
	X 2. lead monoxide (PbO)
	X 3. oxygen (O ₂)
	X 4. nitric oxide (NO)
Q.17	A trader lost 10% by selling a shirt for ₹850. He will gain x%' by selling it for ₹1360, the value of x is:
Ans	✓ 1. 44
	★ 2.54
	X 3.59
	X 4. 34

Q.18	If 1 is added to each odd digit and 1 is subtracted from each even digit in the number 8436152, then what will be the difference between the last and the first digits from the left in the number thus formed?
Ans	★ 1.4
	X 2.3
	✓ 3. 6
	X 4.5
Q.19	Which of the following can be broken down by biological processes?
Ans	X 1. Milk packets
	X 2. Aluminium foil
	✓ 3. Vegetable peels
	X 4. Plastic bottles
Q.20	Which of the following articles empowers the President to make regulations for the peace, progress and good government of the union territories?
Ans	X 1. Article 243
	X 2. Article 244
	✓ 3. Article 240
	X 4. Article 239
Q.21	What happens to the resistance of most conductors as their temperature increases?
Ans	✓ 1. It increases.
	X 2. It remains the same.
	X 3. It decreases.
	X 4. It becomes zero.
Q.22	Which attribute of a paper cup makes it better than a plastic cup for our environment?
Ans	X 1. Disposable
	X 2. Not disposable
	X 3. Non-biodegradable
	✓ 4. Biodegradable
Q.23	₹5400 were divided among P, Q and R, such that 6 times of P = 3 times of Q = 8 times of R. Find the share of R.
Ans	X 1. ₹1235
	Х 2. ₹947
	★ 3. ₹1245
	✓ 4. ₹1080
Q.24	By selling an article at $\frac{5}{14}$ of its actual selling price, Hitesh incurs a loss of 20%. If he sells it at 80% of its actual selling price, then the profit percentage is:
Ans	X 1. 81.2%
	★ 2.80.7%
	X 3. 81.9%
	✓ 4. 79.2%
Q.25	Evaluate: 33 ÷ 9 × 3 - 2 × 4
Ans	✓ 1.3
	X 2.6
	X 2 2
	X Download DDP Exame DDE E DOOKS Crown

Q.26	Which of the following reactions is an example of a precipitation reaction?
Ans	X 1. CaCO ₃ → CaO + CO ₂
	λ 2. HCl + NaOH → NaCl + H ₂ O
	$\mathbf{X} 3.2 \mathrm{H}_2 + \mathrm{O}_2 \rightarrow 2 \mathrm{H}_2 \mathrm{O}$
	✓ 4. NaCl + $AgNO_3 \rightarrow NaNO_3$ + $AgCl$
Q.27	The climate of the Thar desert is best described as
Ans	X 1. temperate
	X 2. tropical rainforest
	X 3. humid subtropical
	✓ 4. arid
Q.28	What is the reason for CFC free refrigerators being manufactured for use throughout the world?
Ans	✓ 1. CFC is a synthetic chemical which depletes the ozone layer.
	X 2. CFC is cheap for use in refrigerators.
	X 3. CFC is tough to handle for the refrigeration industry.
	X 4. CFC makes refrigeration a tough process.
Q.29	B is the father of A. C is the brother of A. D is the wife of C and E is the son of D. How is B related to E?
Ans	✓ 1. Father's father
	X 2. Father's brother
	X 3. Father
	X 4. Brother
Q.30	Himani travels a distance of 352 km with speed of 32 km/h and 330 km with 30 km/h by her car. Find the average speed (in km/h) of Himani.
Ans	✓ 1. 31
	X 2.39
	X 3.21
	X 4. 26
Q.31	Sakshi invested a sum of ₹8900 at 10% per annum compound interest, componded annually. If she received an amount of ₹10769 after n years, the value of n is:
Ans	✓ 1.2
	★ 2. 2.4
	X 3. 1.6000002384186
	X 4.3
Q.32	What would happen to dead plants and animals if decomposers were absent from an ecosystem?
Ans	X 1. They would be eaten by consumers.
	X 2. They would quickly turn into soil.
	✓ 3. They would persist, and the natural replenishment of soil would be hindered.
	X 4. They would become producers.

Q.33	Seven boxes, E, F, G, H, T, U and V, are kept one over the other, but not necessarily in the same order. Only two boxes are kept below E. Only one box is kept above T. Only one box is kept between T and U. G is kept immediately below F. V is kept at some place below H. How many boxes are kept between H and F?
Ans	X 1. Three
	X 2. One
	🗙 3. Тwo
	✓ 4. Four
Q.34	When was the Indian Remote Sensing Satellite System (IRS) established?
Ans	X 1. 1972
	✓ 2. 1988
	🗙 3. 1959
	X 4. 1983
Q.35	What should come in place of the question mark (?) in the given series? 18 24 34 40 50 ?
Ans	✓ 1. 56
	× 2.57
	× 3. 55
	X 4. 58
Q.36	Which of the following represents a combination reaction?
Ans	✓ 1. CaO + H ₂ O → Ca(OH) ₂
	λ 2. CaCO ₃ → CaO + CO ₂
	\thickapprox 3. 2KClO ₃ → 2KCl + 3O ₂
	X 4. NaCl + AgNO ₃ → AgCl + NaNO ₃
Q.37	Which of the following combinations would produce a precipitate?
Ans	✓ 1. NaOH + FeCl ₃
	X 2. NaOH + Na ₂ SO ₄
	X 3. NaOH + NaCl
	X 4. NaCl + KNO₃
Q.38	A question is given, followed by two statements labelled I and II. Identify which of the statements is/are sufficient to answer the question.
	Five people, A, B, C, D and E, have different weights each. Who is the heaviest? (I) A is heavier than C but lighter than D. (II) B is not the heaviest and E is not the lightest.
Ans	X 1. Both Statements I and II put together (and not independently) are sufficient to answer the question.
	X 2. Data in Statement II alone is sufficient to answer the question, while data in Statement I is not.
	X 3. Data in Statement I alone is sufficient to answer the question, while data in Statement II is not.
	✓ 4. Both Statements I and II put together are not sufficient to answer the question.
Q.39	The average price of three items of furniture is Rs 16455. If their prices are in the ratio 3:5:7, the price of the cheapest item (in Rs) is
Ans	× 1. 5485
	× 2. 3291
	🗙 3. 7679
	✓ 4. 9873
	*

Q.40	A copper wire has a resistance of 10 Ω . If it is replaced with a wire of the same material and length but twice the cross-sectional area, its resistance will be
Ans	🗙 1. 20 Ω
	🗙 2. 10 Ω
	🖋 3. 5 Ω
	🗙 4. 2.5 Ω
Q.41	In a certain code language,'guns and roses' is coded as 'li mh ca','for the roses' is coded as 'mh bo ph' and'guns for colours' is coded as 'ca bo qu'.What is the code for 'roses' in that language?
Ans	🗙 1. li
	✓ 2. mh
	🗙 3. ca
	🗙 4. bo
Q.42	Why do iron filings arrange themselves in a pattern around a bar magnet?
Ans	X 1. Because they are heavy
	X 2. Due to gravitational force
	✓ 3. Because of the magnetic field
	X 4. Due to electric charge
Q.43	What is the smallest 4-digit number which, when divided by 12, 16, and 20, gives a remainder of 9?
Ans	✓ 1. 1209
	X 2. 1217
	🗙 3. 1017
	X 4. 1049
Q.44	The first ruler of Delhi Sultanate was:
Ans	X 1. Balban
	2. Qutb-ud-din Aibak
	🗙 3. Alauddin Khalji
	X 4. Iltutmish
Q.45	Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ? # : GOK :: HPL : %
Ans	✓ 1. # = EMI, % = JRN
	X 2. # = EMI, % = JSN
	🗙 3. # = EMI, % = JRM
	★ 4. # = EMJ, % = JRN
Q.46	If a substance has a pH of 11, which of the following statements is true?
Ans	X 1. It is neutral and does not change the litmus colour.
	✓ 2. It is basic and can turn red litmus paper blue.
	X 3. It is acidic and can turn blue litmus paper red.

64 61 7 69.4 67.1 9 22.5 Ans ✓ 1. 54.5 X 2: 25.11 X 3 85.4 X 4: 56.7 C-43 A man walks to a viewpoint and returns to the starting point by his car maintaining constructions there as a total time of 6 hours 45 minutes. He would have be added to the weak both ways with same walking speed? Anax X 1.8 hours 30 minutes X 2.1 8 hours 40 minutes X 3.7 hours 40 minutes X 3.2 7 hours 40 minutes X 4.8 hours 40 minutes X 4.8 hours 45 minutes X 4.28 Anax X 1.20 X 4.23 X 4.23 Code Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a contrain way and thus form a group. Which is the one that DOES NOT belong to that group? Anax X 1.20 X 4.23 Code Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a contain way and thus form a group. Which is the one that DOES NOT belong to that group? Ans X 1.20 X 4.23 Code Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a contain way and thus form a group. Which is the one that DOES NOT belong to that group? Ans X 1.20 X 4.23 Code hourds and follow the orderow in the dupter	Q.47	What should come in place of the question mark (?) in the given series?							
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X 2 631 X 3 564 X 4 587 Q.48 A man walks to a viewpoint and returns to the starting point by his car maintaining constant speed and thus takes a total time of 6 hours 45 minutes. He would have agained 2 hours by diving both ways. How long would it have taken for him to walk both ways with same walking speed? Ans X 1.8 hours 35 minutes X 2.9 hours 15 minutes X 3.7 hours 45 minutes X 3.7 hours 45 minutes X 3.7 hours 45 minutes X 4.8 hours 45 minutes X 3.2 hours 45 minutes X 3.2 hours 45 minutes X 3.2 hours 45 minutes X 4.2 B X 4.2 B 0.50 Based on the English alphabetical order, three of the following four letter-cluster pairs are alive in a cortain way and thus form a group. Which is the one that DOES NOT belong to that group? Ans X 1.00 X 4.2 B 0.51 Anticle 54 A (b) of the indian Constitution states that it is the duity of the citizens to cherina and forw the noble ideals that inspired to	Ans	✓ 1. 54.8							
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C.48 A man walks to a viewpoint and returns to the starting point by his car maintaining constant speed and thus takes a total time of 6 hours 46 minutes. He would have gained 2 hours by dring both ways. How long would it have taken for him to walk both ways with same walking speed? Ans X 1.1 Shours 36 minutes X 2.9 hours 15 minutes X 1.7 hours 45 minutes X 4.8 hours 45 minutes X 4.8 hours 45 minutes X 1.79 X 3.7 hours 45 minutes X 1.29 X 3.8 hours 45 minutes X 1.29 X 3.8 hours 45 minutes X 4.8 hours 45 minutes X 1.29 X 2.7 X 3.6 hours 45 minutes X 4.28 3.6 hours 45 minutes C.50 Based on the English alphabetical order, three of the following four letter-cluster pairs into allike in a contain way and thus form a group. Which is the one that DDES NOT before that group to that group? Ans X 1.6 - LI X 4.18 - XV 3.8 - CL Article 51 A (b) of the Indian Constitution states that it is the duty of the citizens 'to cherish and follow the noble ideals that inspired the		X 4. 56.7							
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Q.54	In which direction does the force act on a conductor placed in a magnetic field in an electric motor?					
Ans	X 1. Opposite to the magnetic field					
	X 2. In the direction of the current					
	X 3. Along the magnetic field					
	✓ 4. Perpendicular to both the current and magnetic field					
Q.55	The average marks of some students in a class is 75. When five students are included, the average becomes 78 and the marks of those five students are 80, 85, 89, 81 and 82. Find the total number of students.					
Ans	X 1.6					
	✓ 2.9					
	✗ 3.8					
	X 4. 10					
Q.56	How many of the following Union territories were created after State Reorganisation Act passed in 1956?					
Ans	X 1.7					
	✓ 2. 6					
	X 3.5					
	X 4.4					
Q.57	The potential difference versus current plot for a conducting wire is a straight line. The slope of this line gives us the:					
Ans	X 1. current flowing through the wire					
	✓ 2. resistance of the wire					
	X 3. voltage across the wire					
	X 4. number of electrons in the wire					
Q.58	In \triangle PQR and \triangle XYZ, PQ = 5 cm, QR = 6 cm, PR = 7 cm, XY = 5 cm, YZ = 6 cm and XZ = 7 cm. Then which of the following is true?					
Ans	\times 1 $\Delta PQR \simeq \Delta YXZ$					
	\checkmark 2. $\Delta PQR \cong \Delta XYZ$					
	\times 3. $\Delta QPR \simeq \Delta XYZ$					
	$\times 4 \Delta PRQ \simeq \Delta XYZ$					
Q.59	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	X 1. MQZE					
	X 2. GKTY					
	V 3. WAIO					
	X 4. OSBG					
Q.60	A number when increased by 50 %, gives 2850. The number is:					
Ans	× 1.950					
	× 2. 3800					
	X 3. 5700					

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Ans X 1.110 X 2.050 X 3.20 ✓ 4.10 Counting to the following number, symbol series and answer the question. Counting to be done from lett or right only. (Left) 98.8 & 6 % & 59.8 2 # 52.7 71 # 5 £ % (Right) New many such numbers are there each of which is immediately proceeded by a symbol and also immediately followed by a symbol? Ans X 1.0 X 2.3 X 3.2 ✓ 4.1 Counter the current is perpendicular to the magnetic field Carrying conductor in a magnetic field become the highest? Counter the current is perpendicular to the magnetic field Ans ✓ 1. When the current is perpendicular to the magnetic field X 3.2 ✓ 4.1 C48 When the current is perpendicular to the magnetic field X 3.2 ✓ 4.1 C48 X When the current is perpendicular to the magnetic field X 3.2 ✓ 4.1 C48 When the current is perpendicular to the magnetic field X 4. When the current is perpendicular to the magnetic field X 4. When the current is perpendicular to the magnetic field X 4. When the current is perpendicular to the magnetic field X 4. When the current is perpendicular to the magnetic field X 4. Howe different hights. B is talther than C but shorter t	Q.61	If three resistors of 6 Ω , 3 Ω and 2 Ω are connected in parallel, the total equivalent resistance is
X 2.050 X 3.21 Image: An intermediate intermedintermedinte intermediate intermediate intermediate in	Ans	🗙 1. 11 Ω
X 3.20 ✓ 4.10 0.62 Refer to the following number, symbol series and answer the question. Counting to be deen from left to right to right. 1.(Left) 98 & & 0 € % 8 S 9 8 2 # 5 2 7 7 1 5 € € % (Right) how many such numbers are there each of which is immediately proceeded by a symbol and allow immediately followed by a symbol? Ans X 1.0 X 2.3 ✓ 4.1 0.63 According to exportmental results, when does the magnitude of the force on a current. carrying conductor in a magnetic field become the highest? Ans ✓ 1.10 0.63 According to exportmental results, when does the magnetic field X 3.2 ✓ 4.1 0.64 When the current is paperadicular to the magnetic field X 3. When the current is paperadicular to the magnetic field X 4. When the current is parallel to the magnetic field X 5. When the current is parallel to the magnetic field X 6. Who among the following women started the Women's Indian Association in 1917? Ans X 1. Uaba Metha X 2. Madam Bhelaj Cama X 3. Sarojeii Nadu ✓ 4. Anno Besant Out shorter than H. H is taller there bus chorter than F. Is taller than C but shorter than H. H is taller there bus chorter than F. Is taller than C but shorter than H. H is taller there bus chorter than F. Is taller than C but shor		🗙 2. 0.5 Ω
Q4.10 Q.82 Refer to the following number, symbol series and answer the question. Counting to be dane from left to right only. (Left) 9.8.8 ± 0.5 ± 8.5 9.8 ± # 52.7.71.6 £ 5 ½ (Right) How many such numbers are there each of which is immediately proceeded by a symbol and also immediately followed by a symbol? Ans X 1.0 X 2.3 X 3.2 Image: A start of the immediately followed by a symbol? Ans X 1.1 C.63 According to experimental results, when does the magnitude of the force on a current-carrying conductor in a magnetic field become the highest? Ans ¥ 1.4 C.64 When the current is parametication to the magnetic field X 2. When the current is parametic field become the highest? Ans ¥ 1. When the current is parametic field X 3. When the current is parametic field X 4. When the current is parametic to the magnetic field X 4. When the current is parametic to the magnetic field X 4. When the current is parametic to the magnetic field X 4. When the current is parametic to but shorter than 1917? Ans X 1. Usha Media X 5. Again Bhkaji Cama X 6. Advice Beant Q.65 B. C. F. F and H have different heights. B is taller than C but shorter than B. How many		🗙 3. 2 Ω
Q.52 Refer to the following number, symbol series and answer the question. Counting to be done from kit to right only. (Left) 9 8 & 8 0 € (% 8 5 9 8 2 # 52 7 7 1 5 £ € % (Right) How many such numbers are there each of which is immediately preceded by a symbol and also immediately followed by a symbol? Ans X 1.0 X 2.3 X 3.2 Image: According to experimental results, when does the magnitude of the force on a current-carrent is perpendicular to the magnetic field Carrent is perpendicular to the magnetic field X 1.1 Ans ¥ 1.1 Carrent is perpendicular to the magnetic field X 2. When the current is perpendicular to the magnetic field X 1. When the current is perpendicular to the magnetic field X 2. When the current flows at any angle to the magnetic field X 4. When the current is perpendicular to the magnetic field X 3. Sarcipin Naidu X 4. When the current flows at any angle to the magnetic field X 4. When the current flows at any angle to the magnetic field X 5. Madam Binkaji Carna X 3. Sarcipin Naidu X 4. Annie Bosant X 6. Karle Bosant X 3. Sarcipin Naidu X 4. Annie Bosant X 7. Four X 7. Four X 7. Four X 8. According process solver than B.? X 1. Two X 2. Four X 9. Achine Bosant X 3. Sor		✔ 4. 1 Ω
Left 9 8 8 & 0 4 % 8 5 8 3 2 # 5 2 7 11 5 £ % (Right) How may such numbers are three soch of which is immediately preceded by a symbol and also immediately followed by a symbol? Ans X 1.0 X 2 3 X 3.2 Image: A start of the symbol of the sym	Q.62	Refer to the following number, symbol series and answer the question. Counting to be done from left to right only.
Ans X 1.0 X 2.3 X 3.2 X 4.1 X 4.1 C63 According to experimental results, when does the magnitude of the force on a current-carrying conductor in a magnetic field become the highest? Ans X 1.4 X 3.3 X 2.4 X 4.1 X 3.4 C63 According to experimental results, when does the magnetic field X 4.1 X 4.1 C64 When the current is perpendicular to the magnetic field X 1. When the current is perpendicular to the magnetic field X 3. When the current is perpendicular to the magnetic field X 3. When the current is perpendicular to the magnetic field X 4. When the current is parallel to the magnetic field X 4. When the current is perpendicular to the magnetic field X 4. When the current is perpendicular to the magnetic field X 4. When the current is perpendicular to the magnetic field X 4. Annie Beant C645 Mode mathylogi Cama X 3. Serojini Nadu X 4. Annie Beant X 1.00 X 2. Four Ans X 1. Two X 2. Four X 5. Four X 3. One X 4. Three C646 Ashopkeeper sells an item for F770.7 after glying two successive discounts of 58% and gly on the anded portit of 25%. Matit the		(Left) 9 8 & & © € % 8 \$ 9 8 2 # 5 2 7 7 1 5 £ € % (Right)
Ans X 1.0 X 2.3 X 3.2 V 3.2 V.1 C453 According to experimental results, when does the magnitude of the force on a current-carrying conductor in a magnetic field become the highest? Ans V 1. When the current is perpendicular to the magnetic field X 2. When the current is perpendicular to the magnetic field X 3. When the current is perpendicular to the magnetic field X 4. When the current flows at any angle to the magnetic field X 4. When the current flows at any angle to the magnetic field X 4. When the current flows at any angle to the magnetic field X 4. When the current flows at any angle to the magnetic field X 4. When the current flows at any angle to the magnetic field X 4. When the current flows at any angle to the magnetic field X 4. When the current flows at any angle to the magnetic field X 4. When the current flows at any angle to the magnetic field X 4. Annice Besant C465 B, C, E, F and H have different heights. B is tailor than C but shorter than H. H is tailor than E but shorter than B? Ans V 1. Two X 2. Four X 3. One X 4. Three C466 A shopkeesper solls an item for ₹770.7 after giving two successive discounts of 56% and aprofit a25%. What is the cost price (in ?) of th		How many such numbers are there each of which is immediately preceded by a symbol and also immediately followed by a symbol?
▲ 2.3 ▲ 3.2 ▲ 4.1 Coording to experimental results, when does the magnitude of the force on a current- ing conductor in a magnetic field become the highest? Ans ▲ 1. When the current is parpendicular to the magnetic field ▲ 2. When the current is parpendicular to the magnetic field ▲ 3. When the current is parpendicular to the magnetic field ▲ 4. When the current is parpendicular to the magnetic field ▲ 4. When the current is parpendicular to the magnetic field ▲ 5. When the current flows at any angle to the magnetic field ▲ 4. When the current flows at any angle to the magnetic field ▲ 5. Serojnin Nadiu ▲ 4. Annie Besant ▲ 6. Serojnin Nadiu ▲ 4. Annie Besant ▲ 5. G. E. F and H havo different heights. B is taller than C but shorter than H. H is taller than E but shorter than F. E is taller than C but shorter than B. How many people are shorter than B. How many people are shorter than B? A 5. G. E. F and H havo different heights. B is taller than C but shorter than B. How many people are shorter than B? A 5. G. E. F and H havo different heights. B is taller than C but shorter than B. How many people are shorter than B? A 5. One ▲ 2. Four A 5. Shopkeeper selis an item for F770.7 after giving two successive discounts of 58%, and 8% on	Ans	× 1.0
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× 2. NGI60 × 2. N	Ans	🗙 1. NGI61
A NO 100 Section PDF F-BOOKS CLICKHERE		X 2. NGI60
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Q.68	This question is ba (Left) 473 987 324 5 (Example: 697 – Fir NOTE: All the opera The position of how arranged in ascend	sed on the fiv 29 648 (Right st digit = 6, se ations to be po v many numbo ling order?	e, three-digit) econd digit = erformed fror ers will remai	numbers gi 9 and third n left to righ n unchange	ven below. digit = 7) It. d if all these nu	umbers are			
Ans	✓ 1. None								
	🗙 2. One								
	🗙 3. Three								
	X 4. Two								
Q.69	The author of the fa	amous novel '	Midnight's Cl	nildren' is:					
Ans	🗸 🗸 1. Salman Rus	hdie							
	X 2. Khushwant S	Singh							
	🗙 3. Shashi Tharc	oor							
	X 4. Ruskin Bond								
Q.70	(1 1 7	7)]		
Q.1 0	$(a^{1} \times b' \times a)$	$\frac{(')}{(\cdot,\cdot)}$ in sim	plified for	rm is:					
	$(a^1 \times b^2 \times c)$	10)	F						
Ans	X 1. (a ²) × ($(b^4) \times (c^2)$	-5)						
	✓ 2. (a ⁰) ×	(b⁵) × (c	-3)						
	× 3. (a ⁴) × ($(b^2) \times (c^2)$	²)						
	× 4. (a ⁻⁸) ×	(b ⁻⁵) ×	(c ⁻⁹)						
0.74		the name ID			it lucitio fue un th	a Davi of]		
Q.71	Bengal?		ana to the cy	cione that i		le Day Ol			
Ans	X 1. The Maldives	3							
	X 2. The United A	rab Emirates							
	🛹 3. Saudi Arabia	1							
	🗙 4. Oman								
Q.72	If the mean of	the follow	ving data i	s 61, the	n the value	of X is:			
	xi	55	60	70	95]			
	fi	48	Х	31	23				
Ans	X 1. 799	•		•	•				
	2.773								
	3.790								
	X 4. 796								
Q.73	Which of the follow resistor?	ing will cause	the greatest	increase in	power dissipat	tion for a given			
Ans	✓ 1. Doubling the	voltage acros	s the resistor						
	X 2. Doubling the	resistance							
	 X 3. Halving the current through the resistor 								
	A 3. Haiving the c	 ▲ A Halving the resistance 							

Q.74	If the length of a wire-shaped resistor is doubled, the resistivity:
Ans	✓ 1. remains the same
	X 2. is doubled
	X 3. is halved
	X 4. is quadrupled
Q.75	A, B, C, D, E, F and G are sitting around a circular table facing the centre. B sits third to the right of F. D sits fourth to the left of B. C is neither the immediate neighbour of B nor D. A sits third to the right of C. E is not the immediate neighbour of D. How many people sit between E and G, when counted from the left of E?
Ans	X 1. None
	X 2. One
	🗙 3. Тwo
	✓ 4. Three
Q.76	What was the venue of the North Atlantic treaty Organization (NATO) Summit in July 2024?
Ans	X 1. New York, United States
	X 2. London, England
	✓ 3. Washington, D.C., United States
	X 4. Paris, France
Q.77	The sum of 8 numbers is 336. Find their average number.
Ans	✓ 1.42
	X 2.40
	🗙 3. 41
	X 4. 43
Q.78	Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?
	FIS38, RUE70, DGQ102, PSC134, ?
Ans	✓ 1. BEO166
	X 2. BOW165
	X 3. BOQ166
	X 4. BOE166
Q.79	Two pipes can fill a tank in 34 hours and 94 hours, respectively. The time (in hours) required to fill the tank when both pipes are opened simultaneously is:
Ans	× 1. 796 <u>30</u>
	× 2. 797 29
	 ✓ ³. ⁷⁹⁹/₃₂
	× 4. 798
	51

Q.80	A solution has a pH of 12. Which ion concentration is higher in this solution?
Ans	X 1. Both H ⁺ and OH [−] are equal
	X 2. More number S ^{2−} ions and more Cl ⁻¹
	✓ 3. Only OH ⁻
	X 4. Only H ⁺
Q.81	RUON is related to VYSR in a certain way based on the English alphabetical order. In the same way, HKED is related to LOIH. To which of the given options is TWQP related, following the same logic?
Ans	X 1. AXUT
	🗙 2. XATU
	V 3. XAUT
	🗙 4. AXTU
Q.82	If the mean proportional of P and 100 is 50, then find the value of P.
Ans	✓ 1.25
	X 2. 28
	X 3. 22
	X 4. 24
Q.83	Fleming's Right-Hand Rule is applicable in the case of
Ans	X 1. electric motors
	✓ 2. electric generators
	X 3. electric kettles
	X 4. fuse wires
Q.84	Why is monitoring pH crucial for understanding the impacts of acid rain on soil and water ecosystems?
Ans	X 1. Acid rain only makes the water taste sour.
	X 2. Acid rain does not affect soil and water ecosystems.
	✓ 3. Acid rain decreases the pH, harming aquatic life and soil nutrient availability.
	X 4. Acid rain increases the pH of soil and water bodies.
Q.85	The centres of two circles with radii 28 cm and 20 cm are 50 cm apart. What is the length (in cm) of the transverse common tangent?
Ans	🗙 1. 16
	X 2. 15
	🗙 3. 13
	✓ 4. 14
Q.86	The ratio between HCF and LCM of two numbers 62 and 217 is 1 : 14. Find the LCM.
Ans	X 1. 439
	X 2. 402
	X 3. 430

Q.87	For which mission of ISRO has the International Astronautical Federation (IAF) awarded ISRO the World Space Award?
Ans	X 1. Chandrayaan-2
	X 2. Aditya-L1
	✓ 3. Chandrayaan-3
	X 4. Venus Mission
Q.88	Study the given diagram carefully and answer the questions. The numbers in different sections indicate the number of persons. How many persons are both poor and uneducated but not famous ? (NOTE: You have to take the given data to be true even if they seem to be at variance from commonly known facts.) Famous 20 12 30 Poor 40
	Uneducated
Ans	X 1.8
	✓ 2.5
	🗙 3. 12
	X 4.30
Q.89	Find the simple interest (in closest integral ₹) on ₹4000 at 5.25% per annum rate of interest for the period from 14 February 2024 to 15 April 2024
Ans	X 1.33
	X 2.36
	🗙 3. 34
	✓ 4. 35
Q.90	The cost of a washing machine is 25% less than the cost of a TV. If the cost of the washing machine increases by 82% and that of the TV decreases by 16%, then what is the change in the total cost of 8 washing machines and 9 TVs?
Ans	✓ 1. Increase by 23.2%
	X 2. Increase by 20%
	X 3. Decrease by 24%
	X 4. Decrease by 21%
Q.91	Select the letter-cluster pair that best represents a similar relationship to the one expressed in the pairs of letter-clusters given below.
	NCG : SFF SQO : XTN
Ans	X 1. REV : WHW
	✓ 2. MKY : RNX
	🗙 3. IUD : NXA

Q.92	Select the option in which the numbers share the same relationship as that shared by the given pairs of numbers. (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.)
	96, 12 184, 23
Ans	🗙 1. 130, 16
	✓ 2. 144, 18
	🗙 3. 156, 19
	★ 4. 180, 20
Q.93	Each of P, Q, R, S, T, U and V has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. Q has the exam on Saturday. Only four people have exams after U. R has the exam immediately before T but not on Monday. S has the exam after P but before U. How many people have exams between R and V?
Ans	X 1. Three
	✔ 2. Two
	X 3. Five
	X 4. Four
Q.94	What architectural style is the Meenakshi Amman Temple known for?
Ans	X 1. Gothic
	🗙 2. Roman
	X 3. Indo-Saracenic
	✓ 4. Dravidian
Q.95	Which ion is responsible for the acidic properties of acids?
Ans	🗙 1. Na ⁺
	✓ 2. H ⁺
	× 3. OH [−]
	¥ 4. CI [−]
Q.96	When two elements react to form a compound, it can be classified as:
Ans	X 1. displacement
	X 2. double displacement
	X 3. decomposition
	✓ 4. combination
Q.97	In a certain code language, 'fan light door' is coded as 'dy ph mt', 'door window mat' is coded as 'lp ph st', 'mat fan glass' is coded as 'st bq dy'. What is the code for 'fan' in that language? (Note: All the codes are two-letter coded only.)
Ans	🗙 1. mt
	🗙 2. bq
	🗙 3. ph
	✓ 4. dy



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Q.98	What term can be used for substances that are broken down by biological processes?
Ans	X 1. Non-biodegradable
	✓ 2. Biodegradable
	X 3. Compostable
	X 4. Recyclable
Q.99	What role do green plants and certain bacteria play in an ecosystem?
Ans	V 1. Producers
	X 2. Consumers
	X 3. Parasites
	X 4. Decomposers
Q.100	Which of the following substances will take the longest time to degrade naturally in the environment?
Ans	✓ 1. Leather
	X 2. Cardboard box
	X 3. Paper

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