



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



Test Date	16/12/2024
Test Time	4:30 PM - 6:00 PM
Subject	RRB JE DMS CMA CS MS

\* Note

Correct Answer will carry 1 mark per Question.

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

1. Options shown in green color with a tick icon are correct.

2. Chosen option on the right of the question indicates the option selected by the candidate.

Section : RRB JE, DMS, CMA, CS, MS CBT-1

Q.1 Which of the following is true regarding the bud development process in Hydra?

Ans  1. Cell divisions at one site

2. Formation of spore

3. Splitting of cytoplasm

4. Splitting of nucleus

Q.2 When an atom of sodium reacts with an atom of chlorine to form sodium chloride, each sodium atom:

Ans  1. gains one electron

2. gains one proton

3. loses one electron

4. loses one proton

Q.3 If at same rate of interest, in 2 years, the simple interest is ₹56 and compound interest is ₹72, then what is the principal (in ₹)?

Ans  1. 53

2. 42

3. 49

4. 44

Q.4 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 4835176, what will be the sum of the digits which are second from the left and second from the right?

Ans  1. 10

2. 12

3. 11

4. 14

Q.5 Which of the following chemical equations is balanced?

Ans  1.  $2H_2 + O_2 \rightarrow 2H_2O$

2.  $H_2 + 2O_2 \rightarrow 2H_2O$

3.  $H_2 + O_2 \rightarrow H_2O$

4.  $H_2O + O_2 \rightarrow H_2O_2$



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Q.6	If x varies inversely as $y^3 - 1$ and is equal to 7 when $y = 2$ , find x when $y = 6$ .
Ans	<div style="display: flex; flex-direction: column; gap: 10px;"> <div style="display: flex; align-items: center;"> <span style="color: green; font-weight: bold; margin-right: 5px;">✓ 1.</span> <math>\frac{49}{215}</math> </div> <div style="display: flex; align-items: center;"> <span style="color: red; font-weight: bold; margin-right: 5px;">✗ 2.</span> <math>\frac{49}{216}</math> </div> <div style="display: flex; align-items: center;"> <span style="color: red; font-weight: bold; margin-right: 5px;">✗ 3.</span> <math>\frac{50}{216}</math> </div> <div style="display: flex; align-items: center;"> <span style="color: red; font-weight: bold; margin-right: 5px;">✗ 4.</span> <math>\frac{51}{215}</math> </div> </div>
Q.7	<p>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 select the most appropriate answer.</p> <p><b>Question:</b> Five friends, P, Q, R, S and T, are sitting around a circular table facing the centre. Who is sitting second to the left of T?</p> <p><b>Statements:</b> (I) S sits second to the right of P. T sits to the immediate left of P. (II) Only one person sits between Q and R. P sits to the immediate left of R.</p>
Ans	<div style="display: flex; flex-direction: column; gap: 10px;"> <div style="display: flex; align-items: center;"> <span style="color: green; font-weight: bold; margin-right: 5px;">✓ 1.</span> <span style="color: green;">Data in statement I alone is sufficient to answer the question while data in statement II is not.</span> </div> <div style="display: flex; align-items: center;"> <span style="color: red; font-weight: bold; margin-right: 5px;">✗ 2.</span> <span style="color: red;">Data in statements I and II together are not sufficient to answer the question.</span> </div> <div style="display: flex; align-items: center;"> <span style="color: red; font-weight: bold; margin-right: 5px;">✗ 3.</span> <span style="color: red;">Data in statement II alone is sufficient to answer the question while data in statement I is not.</span> </div> <div style="display: flex; align-items: center;"> <span style="color: red; font-weight: bold; margin-right: 5px;">✗ 4.</span> <span style="color: red;">Data in statements I and II together are sufficient to answer the question.</span> </div> </div>
Q.8	The average age of Mohan and his four friends is 36 years. Mohan is 5 years older than the average age of his four friends. Determine Mohan's age in years.
Ans	<div style="display: flex; flex-direction: column; gap: 10px;"> <div style="display: flex; align-items: center;"> <span style="color: red; font-weight: bold; margin-right: 5px;">✗ 1.</span> <span>42</span> </div> <div style="display: flex; align-items: center;"> <span style="color: green; font-weight: bold; margin-right: 5px;">✓ 2.</span> <span>40</span> </div> <div style="display: flex; align-items: center;"> <span style="color: red; font-weight: bold; margin-right: 5px;">✗ 3.</span> <span>44</span> </div> <div style="display: flex; align-items: center;"> <span style="color: red; font-weight: bold; margin-right: 5px;">✗ 4.</span> <span>38</span> </div> </div>
Q.9	Two taps can fill a cistern in 2 hours and 47 hours respectively. A third tap can empty it in 47 hours. How long (in hours) will it take to fill the empty cistern, if all of them are opened together?
Ans	<div style="display: flex; flex-direction: column; gap: 10px;"> <div style="display: flex; align-items: center;"> <span style="color: red; font-weight: bold; margin-right: 5px;">✗ 1.</span> <span>5</span> </div> <div style="display: flex; align-items: center;"> <span style="color: red; font-weight: bold; margin-right: 5px;">✗ 2.</span> <span>4</span> </div> <div style="display: flex; align-items: center;"> <span style="color: red; font-weight: bold; margin-right: 5px;">✗ 3.</span> <span>3</span> </div> <div style="display: flex; align-items: center;"> <span style="color: green; font-weight: bold; margin-right: 5px;">✓ 4.</span> <span>2</span> </div> </div>
Q.10	If 'M' is the smallest perfect square number, which is exactly divisible by 12, 15 and 18, then find the sum of the digits of the quotient obtained, when M is divided by 25.
Ans	<div style="display: flex; flex-direction: column; gap: 10px;"> <div style="display: flex; align-items: center;"> <span style="color: red; font-weight: bold; margin-right: 5px;">✗ 1.</span> <span>8</span> </div> <div style="display: flex; align-items: center;"> <span style="color: green; font-weight: bold; margin-right: 5px;">✓ 2.</span> <span>9</span> </div> <div style="display: flex; align-items: center;"> <span style="color: red; font-weight: bold; margin-right: 5px;">✗ 3.</span> <span>7</span> </div> <div style="display: flex; align-items: center;"> <span style="color: red; font-weight: bold; margin-right: 5px;">✗ 4.</span> <span>6</span> </div> </div>

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Q.11	What is the perimeter of a sector of a circle (in cm) if the radius of the circle is 10.5 cm and the angle subtended at the centre of the circle is $60^\circ$ ? (Use $\pi = \frac{22}{7}$ )
Ans	<input checked="" type="checkbox"/> 1. 32 <input type="checkbox"/> 2. 43 <input type="checkbox"/> 3. 41 <input type="checkbox"/> 4. 37
Q.12	The average price of three items of furniture is Rs 16875. If their prices are in the ratio 3:5:7, the price of the cheapest item (in Rs) is
Ans	<input type="checkbox"/> 1. 5625 <input type="checkbox"/> 2. 3375 <input checked="" type="checkbox"/> 3. 10125 <input type="checkbox"/> 4. 7875
Q.13	When light exits a prism, what is the result of its interaction with the prism surfaces?
Ans	<input checked="" type="checkbox"/> 1. Light is refracted. <input type="checkbox"/> 2. Light passes through without any change. <input type="checkbox"/> 3. Light is only reflected. <input type="checkbox"/> 4. Light is only absorbed.
Q.14	If A's salary is 37 % more than that of B, then how much percent is B's salary less than that of A (correct to 2 decimal places)?
Ans	<input type="checkbox"/> 1. 29.04% <input type="checkbox"/> 2. 30.86% <input type="checkbox"/> 3. 29.85% <input checked="" type="checkbox"/> 4. 27.01%
Q.15	In the reaction $\text{MnO}_2 + 4\text{HCl} \rightarrow \text{MnCl}_2 + 2\text{H}_2\text{O} + \text{Cl}_2$ , what is being reduced?
Ans	<input type="checkbox"/> 1. Hydrogen (H) <input type="checkbox"/> 2. Chlorine (Cl) <input type="checkbox"/> 3. Oxygen (O) <input checked="" type="checkbox"/> 4. Manganese (Mn)
Q.16	Who among the following secured a gold medal for India at the Paris Paralympics 2024?
Ans	<input type="checkbox"/> 1. Sachin Khilari <input checked="" type="checkbox"/> 2. Navdeep Singh <input type="checkbox"/> 3. Pranav Soorma <input type="checkbox"/> 4. Hokato Hotozhe Sema
Q.17	Which of the following best describes a combination reaction?
Ans	<input type="checkbox"/> 1. A compound breaks down into simpler substances <input type="checkbox"/> 2. A reaction where a product releases gas <input checked="" type="checkbox"/> 3. Two elements combine to form a compound <input type="checkbox"/> 4. Ions exchange between two compounds

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Q.18	If the ratio of four angles of a quadrilateral is $\angle A : \angle B : \angle C : \angle D :: 2 : 3 : 5 : 8$ , what is the value of $\angle B$ ?
Ans	<input checked="" type="checkbox"/> 1. $60^\circ$
	<input type="checkbox"/> 2. $90^\circ$
	<input type="checkbox"/> 3. $50^\circ$
	<input type="checkbox"/> 4. $40^\circ$
Q.19	Find the simple interest (in closest integral ₹) on ₹3000 at 8% per annum rate of interest for the period from 25 February 2024 to 26 April 2024
Ans	<input type="checkbox"/> 1. 41
	<input type="checkbox"/> 2. 39
	<input type="checkbox"/> 3. 38
	<input checked="" type="checkbox"/> 4. 40
Q.20	What is the median of the following data? 50, 48, 40, 73, 29, 14, 89, 14, 51, 76, 78
Ans	<input type="checkbox"/> 1. 50.5
	<input type="checkbox"/> 2. 51
	<input type="checkbox"/> 3. 49.5
	<input checked="" type="checkbox"/> 4. 50
Q.21	Resistance is the property of a material that _____.
Ans	<input type="checkbox"/> 1. allows the flow of current
	<input checked="" type="checkbox"/> 2. opposes the flow of current
	<input type="checkbox"/> 3. generates electricity
	<input type="checkbox"/> 4. converts electrical energy to mechanical energy
Q.22	According to the Citizenship Amendment Act of 2019, individuals who entered India on or before _____ and belong to the Hindu, Sikh, Buddhist, Jain, Parsi or Christian community from Pakistan, Afghanistan or Bangladesh are eligible for citizenship.
Ans	<input checked="" type="checkbox"/> 1. 31 December 2014
	<input type="checkbox"/> 2. 31 December 2017
	<input type="checkbox"/> 3. 31 December 2016
	<input type="checkbox"/> 4. 31 December 2015
Q.23	A number when increased by 50 %, gives 2910. The number is:
Ans	<input type="checkbox"/> 1. 5820
	<input checked="" type="checkbox"/> 2. 1940
	<input type="checkbox"/> 3. 3880
	<input type="checkbox"/> 4. 970
Q.24	Write the expanded form of $(4a + 6b + 9c)^2$ .
Ans	<input type="checkbox"/> 1. $16a^2 + 36b^2 + 81c^2 + 48ab + 103bc + 72ac$
	<input type="checkbox"/> 2. $16a^2 + 36b^2 + 81c^2 + 48ab + 108bc + 82ac$
	<input type="checkbox"/> 3. $16a^2 + 36b^2 + 81c^2 + 52ab + 108bc + 72ac$
	<input checked="" type="checkbox"/> 4. $16a^2 + 36b^2 + 81c^2 + 48ab + 108bc + 72ac$

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Q.25	A cylindrical rod has an outer curved surface area of $4500 \text{ cm}^2$ . If the length of the rod is 39 cm, then the outer radius (in cm) of the rod, correct to two places of decimal, is: $\text{Take } \pi = \frac{22}{7}$
Ans	<input checked="" type="checkbox"/> 1. 18.36
	<input type="checkbox"/> 2. 20.93
	<input type="checkbox"/> 3. 20.48
	<input type="checkbox"/> 4. 18.25
Q.26	Why does a compass needle get deflected when brought near a bar magnet?
Ans	<input type="checkbox"/> 1. The compass needle is non-magnetic.
	<input type="checkbox"/> 2. The compass needle has electric charge.
	<input checked="" type="checkbox"/> 3. The compass needle is a small bar magnet.
	<input type="checkbox"/> 4. The compass needle is made of iron.
Q.27	Covalent molecules have low melting and boiling point because:
Ans	<input type="checkbox"/> 1. they are generally gaseous in nature
	<input checked="" type="checkbox"/> 2. they have weak intermolecular forces
	<input type="checkbox"/> 3. they have strong bonds within the molecule
	<input type="checkbox"/> 4. they have strong electrostatic intermolecular forces
Q.28	Where was the Swachh Vayu Diwas celebrated in India to combat air pollution in 2024?
Ans	<input type="checkbox"/> 1. Indore
	<input checked="" type="checkbox"/> 2. Jaipur
	<input type="checkbox"/> 3. Bhopal
	<input type="checkbox"/> 4. Chandigarh
Q.29	Which of the following are the 6 accounts that have a role in the economic classification of the budget?
Ans	<input type="checkbox"/> 1. Accounts A to F: Transaction in goods, services, and capital
	<input checked="" type="checkbox"/> 2. Accounts I to VI: Transaction in commodities, revenue, and capital
	<input type="checkbox"/> 3. Accounts X to XV: Transaction in current and capital assets
	<input type="checkbox"/> 4. Accounts 1 to 6: Transaction in commodities and services and transfers
Q.30	B, C, D, F and H have different marks. Only one person has scored between B and D. Only three people have scored between H and B. No one has scored between F and B and F's score is more than B's score. How many people have scored less than C?
Ans	<input type="checkbox"/> 1. One
	<input type="checkbox"/> 2. Four
	<input checked="" type="checkbox"/> 3. Three
	<input type="checkbox"/> 4. Two
Q.31	Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair 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	<input type="checkbox"/> 1. TQ - MJ
	<input type="checkbox"/> 2. ZW - SP
	<input type="checkbox"/> 3. NK - GD
	<input checked="" type="checkbox"/> 4. RV - KJ

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Q.32	Keshav starts from Point A and drives 22 km towards the South. He then takes a left turn, drives 24 km, turns left and drives 27 km. He then takes a left turn and drives 25 km. He takes a final left turn, drives 5 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 degrees turns only unless specified)
Ans	<input type="checkbox"/> 1. 3 km to the east
	<input type="checkbox"/> 2. 2 km to the east
	<input checked="" type="checkbox"/> 3. 1 km to the east
	<input type="checkbox"/> 4. 4 km to the east
Q.33	Which factor does NOT affect the electric power consumed by an electric device?
Ans	<input checked="" type="checkbox"/> 1. Frequency of the device
	<input type="checkbox"/> 2. Resistance of the device
	<input type="checkbox"/> 3. Voltage applied to the device
	<input type="checkbox"/> 4. Current passing through the device
Q.34	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.)  6-36-46-92; 7-49-59-118
Ans	<input checked="" type="checkbox"/> 1. 5-25-35-70
	<input type="checkbox"/> 2. 4-16-26-62
	<input type="checkbox"/> 3. 3-9-29-58
	<input type="checkbox"/> 4. 8-64-74-138
Q.35	7 is related to 9.8 following a certain logic. Following the same logic, 11 is related to 15.4. To which of the given options is 9 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	<input type="checkbox"/> 1. 13.8
	<input type="checkbox"/> 2. 12.4
	<input checked="" type="checkbox"/> 3. 12.6
	<input type="checkbox"/> 4. 11.6
Q.36	The selling price of 25 books is equal to the cost price of 41 books. Find the loss or gain percentage.
Ans	<input type="checkbox"/> 1. $\frac{100}{16}$ % gain
	<input checked="" type="checkbox"/> 2. 64 % gain
	<input type="checkbox"/> 3. $\frac{100}{16}$ % loss
	<input type="checkbox"/> 4. 64 % loss

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Q.37	What is the thread-like structure in Rhizopus?
Ans	<input type="checkbox"/> 1. Spores
	<input checked="" type="checkbox"/> 2. Hyphae
	<input type="checkbox"/> 3. Sporangia
	<input type="checkbox"/> 4. Blobs
Q.38	Which of the following helps a developing embryo to expel waste products in case of humans?
Ans	<input checked="" type="checkbox"/> 1. Placenta
	<input type="checkbox"/> 2. Cervix
	<input type="checkbox"/> 3. Oviduct
	<input type="checkbox"/> 4. Ovary
Q.39	Which of the following reactions leads to the production of bleaching powder?
Ans	<input type="checkbox"/> 1. $\text{CaCO}_3 + \text{HCl} \rightarrow \text{CaCl}_2 + \text{CO}_2 + \text{H}_2\text{O}$
	<input checked="" type="checkbox"/> 2. $\text{Ca(OH)}_2 + \text{Cl}_2 \rightarrow \text{CaOCl}_2 + \text{H}_2\text{O}$
	<input type="checkbox"/> 3. $\text{Ca(OH)}_2 + \text{CO}_2 \rightarrow \text{CaCO}_3 + \text{H}_2\text{O}$
	<input type="checkbox"/> 4. $\text{CaO} + \text{H}_2\text{O} \rightarrow \text{Ca(OH)}_2$
Q.40	Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete? QTW 13, MPS 19, ILO 25, EHK 31, ADG 37, ?
Ans	<input type="checkbox"/> 1. WZC 47
	<input type="checkbox"/> 2. ZCZ 43
	<input type="checkbox"/> 3. WGC 43
	<input checked="" type="checkbox"/> 4. WZC 43
Q.41	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.)
Ans	<input checked="" type="checkbox"/> 1. FI-NS
	<input type="checkbox"/> 2. VY-CI
	<input type="checkbox"/> 3. HK-OU
	<input type="checkbox"/> 4. SV-ZF
Q.42	Space Kidz India has launched the ShakthiSAT mission to train _____ girls aged 14-18 from 108 countries in space technology, aiming for a satellite launch under ISRO's Chandrayaan-4 mission in 2026.
Ans	<input checked="" type="checkbox"/> 1. 12,000
	<input type="checkbox"/> 2. 5000
	<input type="checkbox"/> 3. 10,000
	<input type="checkbox"/> 4. 7500



**Q.43** The mean marks of the following distribution is:

Marks Obtained	No. of Students
83	9
73	5
20	18
82	16

**Ans**  1. 57

2. 78

3. 50

4. 58

**Q.44** What is the correct sequence of following mountain ranges of India from north to south?

1. Vindhya Range 2. Aravalli Range 3. Ajanta Range 4. Satpura Range

**Ans**  1. 2, 1, 3, 4

2. 1, 2, 4, 3

3. 2, 1, 4, 3

4. 1, 2, 3, 4

**Q.45** Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only.  
(Left) 7 % > 9 2 & 4 < 3 # 8 \$ 5 \* 6 ^ # 1 (Right)  
If all the symbols are dropped from the series, which of the following will be third from the left?

**Ans**  1. 2

2. 4

3. 3

4. 8

**Q.46** The current through a resistor is:

**Ans**  1. proportional to the square of the resistance

2. inversely proportional to the resistance

3. proportional to the square root of the resistance

4. directly proportional to the resistance

**Q.47** What will come in the place of the question mark (?) in the following equation if '+' and '-' are interchanged and '÷' and '×' are interchanged?

$$51 - 8 \div 2 + 6 \times 2 = ?$$

**Ans**  1. 71

2. 66

3. 64

4. 70

**Q.48** Which of the following metals is least likely to corrode in moist air?

**Ans**  1. Zinc

2. Iron

3. Magnesium

4. Copper



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Q.49	What should come in place of the question mark (?) in the given series based on the English alphabetical order? GNK IPM KRO MTQ ?
Ans	<input type="checkbox"/> 1. OVR <input type="checkbox"/> 2. OUS <input checked="" type="checkbox"/> 3. OVS <input type="checkbox"/> 4. OUR
Q.50	In the case of a thin lens, how are the centres of curvature typically positioned relative to the optical centre?
Ans	<input checked="" type="checkbox"/> 1. They are equidistant from the optical centre. <input type="checkbox"/> 2. They are located on the lens surface itself. <input type="checkbox"/> 3. They are closer to the edge than to the optical centre. <input type="checkbox"/> 4. They coincide with the optical centre.
Q.51	The average price of three items of furniture is Rs 16800. If their prices are in the ratio 3:5:7, the price of the cheapest item (in Rs) is
Ans	<input type="checkbox"/> 1. 3360 <input type="checkbox"/> 2. 7840 <input type="checkbox"/> 3. 5600 <input checked="" type="checkbox"/> 4. 10080
Q.52	Which of the following factors directly affects the resistance of a conductor?
Ans	<input checked="" type="checkbox"/> 1. Length of the conductor <input type="checkbox"/> 2. Power of the conductor <input type="checkbox"/> 3. Voltage across the conductor <input type="checkbox"/> 4. Current through the conductor
Q.53	Why might surgical family planning methods be risky if not done correctly?
Ans	<input checked="" type="checkbox"/> 1. They can lead to infections or complications. <input type="checkbox"/> 2. They might prevent ovulation. <input type="checkbox"/> 3. They may cause hormonal side effects. <input type="checkbox"/> 4. They can increase fertility.
Q.54	Two pipes can fill a tank in 20 hours and 90 hours, respectively. The time (in hours) required to fill the tank when both pipes are opened simultaneously is:
Ans	<input type="checkbox"/> 1. $\frac{179}{9}$ <input type="checkbox"/> 2. $\frac{183}{8}$ <input type="checkbox"/> 3. $\frac{177}{13}$ <input checked="" type="checkbox"/> 4. $\frac{180}{11}$

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Q.55	P is the son of Q's brother R. S is the wife of Q and T is the son of S. How is P related to S?
Ans	<input type="checkbox"/> 1. Father's brother
	<input type="checkbox"/> 2. Brother's son
	<input checked="" type="checkbox"/> 3. Father's brother's son
	<input type="checkbox"/> 4. Father's son
Q.56	Double displacement reactions usually occur in:
Ans	<input checked="" type="checkbox"/> 1. aqueous solution
	<input type="checkbox"/> 2. gaseous state
	<input type="checkbox"/> 3. all three states
	<input type="checkbox"/> 4. solid state
Q.57	Q, R, S, T, U and V 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. S lives on the third floor. Only two people live between S and U. R lives on one of the floors below U but immediately above Q. Q does not live on the fourth floor. V lives on an odd numbered floor. How many people live between T and Q?
Ans	<input type="checkbox"/> 1. Four
	<input type="checkbox"/> 2. Three
	<input checked="" type="checkbox"/> 3. Two
	<input type="checkbox"/> 4. One
Q.58	Write the expanded form of $(3a + 5b + 7c)^2$ .
Ans	<input type="checkbox"/> 1. $9a^2 + 25b^2 + 49c^2 + 30ab + 70bc + 52ac$
	<input checked="" type="checkbox"/> 2. $9a^2 + 25b^2 + 49c^2 + 30ab + 70bc + 42ac$
	<input type="checkbox"/> 3. $9a^2 + 25b^2 + 49c^2 + 30ab + 65bc + 42ac$
	<input type="checkbox"/> 4. $9a^2 + 25b^2 + 49c^2 + 34ab + 70bc + 42ac$
Q.59	Which of the following is related to Article 84 of the Constitution?
Ans	<input type="checkbox"/> 1. Disqualification for membership
	<input type="checkbox"/> 2. Annual Financial Statement
	<input checked="" type="checkbox"/> 3. Qualification for membership of Parliament
	<input type="checkbox"/> 4. Ordinance making Power of President
Q.60	The Moplah Rebellion of 1921 took place in which of the following regions?
Ans	<input type="checkbox"/> 1. Punjab
	<input type="checkbox"/> 2. Bengal
	<input checked="" type="checkbox"/> 3. Kerala
	<input type="checkbox"/> 4. Assam
Q.61	What is the final product of sexual reproduction in plants?
Ans	<input type="checkbox"/> 1. Leaves
	<input checked="" type="checkbox"/> 2. Seeds
	<input type="checkbox"/> 3. Flowers
	<input type="checkbox"/> 4. Fruits

Q.62	Which of the following ratio is smallest?
Ans	<p><input type="checkbox"/> 1. 17 : 39</p> <p><input type="checkbox"/> 2. 23 : 48</p> <p><input checked="" type="checkbox"/> 3. 10 : 36</p> <p><input type="checkbox"/> 4. 15 : 33</p>
Q.63	$\frac{(a^5 \times b^9 \times c^1)}{(a^6 \times b^3 \times c^8)}$ in simplified form is:
Ans	<p><input type="checkbox"/> 1. <math>(a^4) \times (b^{-10}) \times (c^1)</math></p> <p><input type="checkbox"/> 2. <math>(a^{-10}) \times (b^{-5}) \times (c^{-8})</math></p> <p><input type="checkbox"/> 3. <math>(a^{-5}) \times (b^3) \times (c^{-6})</math></p> <p><input checked="" type="checkbox"/> 4. <math>(a^{-1}) \times (b^6) \times (c^{-7})</math></p>
Q.64	If x is inversely proportional to y, and y = 7 when x = 5, find the value of x, when y = 90.
Ans	<p><input checked="" type="checkbox"/> 1. <math>\frac{7}{18}</math></p> <p><input type="checkbox"/> 2. <math>\frac{7}{19}</math></p> <p><input type="checkbox"/> 3. <math>\frac{9}{21}</math></p> <p><input type="checkbox"/> 4. <math>\frac{8}{19}</math></p>
Q.65	Find the total time taken by boat to travel upstream and downstream, if the distance travel in each direction (upstream and downstream) is 270km. If speed of boat is 24 km/h and speed of current is 21 km/h.
Ans	<p><input type="checkbox"/> 1. 104 hours</p> <p><input type="checkbox"/> 2. 87 hours</p> <p><input checked="" type="checkbox"/> 3. 96 hours</p> <p><input type="checkbox"/> 4. 106 hours</p>
Q.66	What should come in place of the question mark (?) in the given series? 305 251 206 170 143 ?
Ans	<p><input type="checkbox"/> 1. 130</p> <p><input checked="" type="checkbox"/> 2. 125</p> <p><input type="checkbox"/> 3. 120</p> <p><input type="checkbox"/> 4. 115</p>
Q.67	The knowledge of which two subjects played key role in formulating laws of Inheritance?
Ans	<p><input checked="" type="checkbox"/> 1. Maths and Science</p> <p><input type="checkbox"/> 2. Geography and Philosophy</p> <p><input type="checkbox"/> 3. Philosophy and Science</p> <p><input type="checkbox"/> 4. Maths and History</p>

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Q.68	Select the option in which the triads share the same relationship as that shared by the given triads.  HAND - ANDH - NDHA BIRD - IRDB - RDBI	
Ans	<input type="checkbox"/> 1. CUBE - CEBU - BUEC	
	<input checked="" type="checkbox"/> 2. ROSE - OSER - SERO	
	<input type="checkbox"/> 3. DUCK - CKDU - CUKD	
	<input type="checkbox"/> 4. FROG - ROGF - ROFG	
Q.69	Akshat completes his journey in 10 hours. He covers half the distance at 72 km/h and the rest at 36 km/h. What is the length of the journey (in Km)?	
Ans	<input type="checkbox"/> 1. 481	
	<input checked="" type="checkbox"/> 2. 480	
	<input type="checkbox"/> 3. 473	
	<input type="checkbox"/> 4. 471	
Q.70	In which case will a lens produce a magnification of exactly 1?	
Ans	<input type="checkbox"/> 1. When the object is at infinity	
	<input checked="" type="checkbox"/> 2. When the object is placed at twice the focal length	
	<input type="checkbox"/> 3. When the object is placed between centre of curvature and focal point	
	<input type="checkbox"/> 4. When the object is placed at the focal point	
Q.71	In a certain code language, 'fast and furious' is coded as 'bo li ke', 'quick is furious' is coded as 'ke ra ng' and 'fast but quick' is coded as 'ng li ty'. What is the code for 'furious' in that language?	
Ans	<input type="checkbox"/> 1. bo	
	<input type="checkbox"/> 2. ra	
	<input type="checkbox"/> 3. li	
	<input checked="" type="checkbox"/> 4. ke	
Q.72	Refer to the given number, symbol series and answer the question that follows. Counting to be done from left to right only. (Left) 2 3 \$ 7 5 & 6 % 3 \$ # 9 @ ) 7 + 6 ? > ? 4 7 5 \$ (Right) How many such numbers are there each of which is immediately preceded by a symbol and also immediately followed by another symbol?	
Ans	<input type="checkbox"/> 1. 4	
	<input checked="" type="checkbox"/> 2. 5	
	<input type="checkbox"/> 3. 6	
	<input type="checkbox"/> 4. 7	
Q.73	Which of the following is NOT a private sector company in India?	
Ans	<input type="checkbox"/> 1. Tata Iron and Steel Company	
	<input type="checkbox"/> 2. Bajaj Auto Limited	
	<input checked="" type="checkbox"/> 3. Bharat Heavy Electricals Limited	
	<input type="checkbox"/> 4. Dabur	
Q.74	A shopkeeper sells an item for ₹287.7 after giving two successive discounts of 86% and 85% on its marked price. Had he not given any discount, he would have earned a profit of 37%. What is the cost price (in ₹) of the item?	
Ans	<input checked="" type="checkbox"/> 1. 10000	
	<input type="checkbox"/> 2. 10038	
	<input type="checkbox"/> 3. 9958	
	<input type="checkbox"/> 4. 10000	



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<b>Q.75</b>	In plants, spore formation is a mode of reproduction that involves the production of spores. Which of the following statements about spore formation is true?	
<b>Ans</b>	<p><input type="checkbox"/> 1. Spores are a form of vegetative propagation in angiosperms only.</p> <p><input type="checkbox"/> 2. Spores are formed through sexual reproduction in plants.</p> <p><input type="checkbox"/> 3. Spores are produced by flowers, and they grow into seeds.</p> <p><input checked="" type="checkbox"/> 4. Spores are produced by non-flowering plants like ferns and mosses, and they grow into new plants.</p>	

<b>Q.76</b>	Study the given diagram carefully and answer the question that follows. The numbers in different sections indicate the number of persons/objects.	
	How many such officers exist that are also scientists but not professors?	

<b>Ans</b>	<p><input type="checkbox"/> 1. 12</p> <p><input type="checkbox"/> 2. 16</p> <p><input type="checkbox"/> 3. 4</p> <p><input checked="" type="checkbox"/> 4. 5</p>	
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<b>Q.77</b>	Find the value of $2.5 \times 4 + 3.68 \div 4 - 8.46 \times 2 + 7.365 \times 4 + 2.8 \times 3 - 1.675 \times 2$ .	
<b>Ans</b>	<p><input type="checkbox"/> 1. 27.98</p> <p><input type="checkbox"/> 2. 28.96</p> <p><input checked="" type="checkbox"/> 3. 28.51</p> <p><input type="checkbox"/> 4. 27.21</p>	

<b>Q.78</b>	At which of the following places is the tomb of Sher Shah located?	
<b>Ans</b>	<p><input type="checkbox"/> 1. Patna</p> <p><input type="checkbox"/> 2. Lahore</p> <p><input checked="" type="checkbox"/> 3. Sasaram</p> <p><input type="checkbox"/> 4. Agra</p>	

<b>Q.79</b>	Who among the following is the leader of the house in the Lok Sabha?	
<b>Ans</b>	<p><input type="checkbox"/> 1. Lok Sabha Speaker</p> <p><input type="checkbox"/> 2. Opposition Leader</p> <p><input type="checkbox"/> 3. President of India</p> <p><input checked="" type="checkbox"/> 4. Prime Minister</p>	

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Q.80	In a row of people all facing north, Shakshi is 11 <sup>th</sup> from the left end. Ravi is 12 <sup>th</sup> from the left end. Ravi is exactly between Shakshi and Ron. If Ron is 14 <sup>th</sup> from the right end of the row, how many people are there in the row?
Ans	<input type="checkbox"/> 1. 25
	<input checked="" type="checkbox"/> 2. 26
	<input type="checkbox"/> 3. 27
	<input type="checkbox"/> 4. 28
Q.81	Which of the following statements is true about the pH of a neutral solution at 25°C?
Ans	<input type="checkbox"/> 1. The pH is greater than 7.
	<input type="checkbox"/> 2. The pH is not equal to 7.
	<input type="checkbox"/> 3. The pH is less than 7.
	<input checked="" type="checkbox"/> 4. The pH is equal to 7.
Q.82	S, T, U, V, W, X and Y are sitting around a circular table facing the centre. S sits fourth to the left of W. T sits second to the right of S. V is neither the immediate neighbour of T nor S. X sits third to the right of V. Y is not the immediate neighbour of W. How many people are sitting between S and T, when counted from the left of S?
Ans	<input checked="" type="checkbox"/> 1. Four
	<input type="checkbox"/> 2. Three
	<input type="checkbox"/> 3. Two
	<input type="checkbox"/> 4. One
Q.83	Which of the following is called a motile germ cell?
Ans	<input checked="" type="checkbox"/> 1. Male gamete
	<input type="checkbox"/> 2. Female gamete
	<input type="checkbox"/> 3. Embryo
	<input type="checkbox"/> 4. Zygote
Q.84	The Great Stupa at Sanchi is an important site in which religion?
Ans	<input type="checkbox"/> 1. Islam
	<input checked="" type="checkbox"/> 2. Buddhism
	<input type="checkbox"/> 3. Jainism
	<input type="checkbox"/> 4. Hinduism
Q.85	A vendor bought lemons at 40 for a rupee. How many must he sell for a rupee to gain 25%?
Ans	<input type="checkbox"/> 1. 34
	<input type="checkbox"/> 2. 36
	<input type="checkbox"/> 3. 33
	<input checked="" type="checkbox"/> 4. 32
Q.86	What was the venue of the 57 <sup>th</sup> ASEAN Foreign Ministers' Meeting?
Ans	<input type="checkbox"/> 1. Kuala Lumpur, Malaysia
	<input type="checkbox"/> 2. Naypyidaw, Myanmar
	<input checked="" type="checkbox"/> 3. Vientiane, Lao People's Democratic Republic
	<input type="checkbox"/> 4. Jakarta, Indonesia

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Q.87	Evaluate: $16 + 18 \div 3 - 3 \times 3$
Ans	<input checked="" type="checkbox"/> 1. 13
	<input type="checkbox"/> 2. 15
	<input type="checkbox"/> 3. 12
	<input type="checkbox"/> 4. 16
Q.88	In a certain code, 'floor door room' is coded as 'bn la mt', 'door chair table' is coded as 'wd bn ka' and 'chair room window' is coded as 'ka bz la'. All the codes are two-letter code only. What is room coded as?
Ans	<input type="checkbox"/> 1. ka
	<input type="checkbox"/> 2. bn
	<input checked="" type="checkbox"/> 3. la
	<input type="checkbox"/> 4. bz
Q.89	If two resistors in series are equal, say R each, what is the total resistance?
Ans	<input type="checkbox"/> 1. $R^2$
	<input checked="" type="checkbox"/> 2. 2R
	<input type="checkbox"/> 3. R
	<input type="checkbox"/> 4. $R/2$
Q.90	In which of the following scenarios does the focal length of a concave mirror vary?
Ans	<input type="checkbox"/> 1. When placed in a vacuum
	<input type="checkbox"/> 2. When placed in air
	<input checked="" type="checkbox"/> 3. Focal length does not vary in any media
	<input type="checkbox"/> 4. When placed in water
Q.91	If $\sin\theta = \frac{12}{13}$ , then what is the value of $26 \sin\theta - 10 \sec\theta$ ?
Ans	<input type="checkbox"/> 1. 0
	<input type="checkbox"/> 2. 1
	<input type="checkbox"/> 3. 2
	<input checked="" type="checkbox"/> 4. -2
Q.92	After fertilisation, the zygote divides multiple times to form which structure within the ovule?
Ans	<input type="checkbox"/> 1. Seed
	<input type="checkbox"/> 2. Fruit
	<input type="checkbox"/> 3. Style
	<input checked="" type="checkbox"/> 4. Embryo
Q.93	What should come in place of the question mark (?) in the given series? 29 11 29 15 29 19 29 23 29 ?
Ans	<input type="checkbox"/> 1. 31
	<input type="checkbox"/> 2. 25
	<input type="checkbox"/> 3. 29
	<input checked="" type="checkbox"/> 4. 27



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Q.94	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 ::? # : IBX :: HAW : %
Ans	<input type="checkbox"/> 1. # = FYU, % = NDZ <input checked="" type="checkbox"/> 2. # = FYU, % = KDZ <input type="checkbox"/> 3. # = FYU, % = KDO <input type="checkbox"/> 4. # = FUU, % = KDZ
Q.95	Which of the following is the correct formula for the first member of the alkene series?
Ans	<input type="checkbox"/> 1. C <sub>4</sub> H <sub>8</sub> <input checked="" type="checkbox"/> 2. C <sub>2</sub> H <sub>4</sub> <input type="checkbox"/> 3. C <sub>3</sub> H <sub>6</sub> <input type="checkbox"/> 4. C <sub>5</sub> H <sub>10</sub>
Q.96	Write the expanded form of $(3a + 6b + 5c)^2$ .
Ans	<input type="checkbox"/> 1. $9a^2 + 36b^2 + 25c^2 + 40ab + 60bc + 30ac$ <input checked="" type="checkbox"/> 2. $9a^2 + 36b^2 + 25c^2 + 36ab + 60bc + 30ac$ <input type="checkbox"/> 3. $9a^2 + 36b^2 + 25c^2 + 36ab + 60bc + 40ac$ <input type="checkbox"/> 4. $9a^2 + 36b^2 + 25c^2 + 36ab + 55bc + 30ac$
Q.97	Select the letter-cluster pair that best represents a similar relationship to the one expressed in the pairs of letter-clusters given below.  DMO : HPM LIF : PLD
Ans	<input type="checkbox"/> 1. NEL : RGJ <input checked="" type="checkbox"/> 2. VFP : ZIN <input type="checkbox"/> 3. RKY : VNV <input type="checkbox"/> 4. ENZ : IQY
Q.98	Which of the following statements is/are correct about the PM Vishwakarma Yojana?  1) The PM Vishwakarma Yojana was launched by the Hon'ble Prime Minister on 17 September 2023. 2) Scheme aims to provide end-to-end support to artisans and craftspeople who work with their hands and tools. 3) The Scheme components include recognition through PM Vishwakarma Certificate and ID Card, Skill Upgradation, Toolkit Incentive, Credit Support, Incentive for Digital Transactions, and Marketing Support.
Ans	<input type="checkbox"/> 1. 2 only <input checked="" type="checkbox"/> 2. 1, 2 and 3 <input type="checkbox"/> 3. 3 only <input type="checkbox"/> 4. 1 only
Q.99	Who is the author of 'Segar: Autobiography with Paintings,' published in 2013?
Ans	<input checked="" type="checkbox"/> 1. D Raja Segar <input type="checkbox"/> 2. Jhumpa Lahiri <input type="checkbox"/> 3. Githa Hariharan <input type="checkbox"/> 4. Salman Rushdie

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Q.100 What is the role of the stigma in the process of fertilisation?

Ans  1. Serving as the site where pollen lands

2. Fusing with the egg cell

3. Producing pollen

4. Developing into a seed

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