



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	12:45 PM - 2:15 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 Pratap starts from Point A and drives 16 km towards south. He then takes a right turn, drives 13 km, turns right and drives 18 km. He then takes a right turn and drives 18 km. He takes a final right turn, drives 2 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. 7 km to the west

2. 5 km to the west

3. 3 km to the west

4. 6 km to the west

Q.2 If the radius of a hemisphere is increased by 50%, then find the percentage increase in the volume. (Take $\pi = \frac{22}{7}$)

Ans 1. 112.5%

2. 150%

3. 125%

4. 137.5%

Q.3 Sangeeta and Hemlata invest in a business in the ratio 1 : 3. If total profit is Rs. 2568, then what is difference between the profit (in Rs.) of Sangeeta and Hemlata?

Ans 1. 1384

2. 1284

3. 1184

4. 1334

Q.4 The length of each of the two equal sides of an isosceles triangle is 89 cm each and the length of its base is 78 cm. The area (in cm²) of the triangle is:

Ans 1. 3120

2. 3134

3. 3102

4. 3139

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Q.5 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.)

18, 111
13, 81

Ans ✓ 1. 15, 93

✗ 2. 19, 114

✗ 3. 12, 69

✗ 4. 17, 104

Q.6 A conductor has a current of 150 mA flowing through it with a resistance of 0.8 Ω . Find the potential difference across the conductor.

Ans ✗ 1. 5.3 V

✗ 2. 120 V

✗ 3. 18.75 V

✓ 4. 0.12 V

Q.7 The potential difference, V, across the ends of a given metallic wire in an electric circuit is directly proportional to the current flowing through it, provided its temperature remains the same. This is known as:

Ans ✓ 1. Ohm's law

✗ 2. Resistance law

✗ 3. Newton's law

✗ 4. Ampere's law

Q.8 If the interest earned during the 2nd year on a certain sum is ₹9911, and the rate of interest is 10% per annum compounded annually, then the sum is:

Ans ✓ 1. ₹90100

✗ 2. ₹90080

✗ 3. ₹90055

✗ 4. ₹90115

Q.9 What was the venue of the 23rd meeting of the Shanghai Cooperation Organisation (SCO) in 2024?

Ans ✗ 1. New Delhi, India

✗ 2. Sanghai, China

✓ 3. Islamabad, Pakistan

✗ 4. Dhaka, Bangladesh

Q.10 By selling an article at $\frac{2}{5}$ of its actual selling price, Manav incurs a loss of 27%. If he sells it at 84% of its actual selling price, then the profit percentage is:

Ans ✗ 1. 56.9%

✗ 2. 52.6%

✗ 3. 55.5%

✓ 4. 53.3%

Q.11 Aman completes his journey in 14 hours. He covers half the distance at 39 km/h and the rest at 45 km/h. What is the length of the journey (in Km)?

Ans ✗ 1. 592

✗ 2. 591

✗ 3. 594

✓ 4. 585

Q.12	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	<p><input type="checkbox"/> 1. CJSX</p> <p><input checked="" type="checkbox"/> 2. JQZF</p> <p><input type="checkbox"/> 3. BIRW</p> <p><input type="checkbox"/> 4. UBKP</p>
Q.13	A number when increased by 50 %, gives 3030. The number is:
Ans	<p><input type="checkbox"/> 1. 1010</p> <p><input type="checkbox"/> 2. 6060</p> <p><input checked="" type="checkbox"/> 3. 2020</p> <p><input type="checkbox"/> 4. 4040</p>
Q.14	What is formed when ammonium dichromate is heated?
Ans	<p><input checked="" type="checkbox"/> 1. Nitrogen, oxygen and chromium oxide</p> <p><input type="checkbox"/> 2. Chromium oxide and water</p> <p><input type="checkbox"/> 3. Chromium and oxygen</p> <p><input type="checkbox"/> 4. Chromium oxide and nitrogen</p>
Q.15	A wire has a resistance of R. If its length is increased by a factor of 8 and its cross-sectional area is decreased by a factor of 4, what is its new resistance (R')?
Ans	<p><input type="checkbox"/> 1. $R' = 8 R$</p> <p><input type="checkbox"/> 2. $R' = 16 R$</p> <p><input checked="" type="checkbox"/> 3. $R' = 32 R$</p> <p><input type="checkbox"/> 4. $R' = 2 R$</p>
Q.16	<p>A question is given, followed by two statements labelled I and II. Identify which of the statements is/are sufficient to answer the question.</p> <p>A, B, C, D and E are sitting in a straight line facing north. Who sits on the extreme left end?</p> <p>(I) Exactly 2 people sit between A and E. (II) Exactly 2 people sit between B and C.</p>
Ans	<p><input type="checkbox"/> 1. Data in Statement II alone is sufficient to answer the question, while data in Statement I alone is not.</p> <p><input checked="" type="checkbox"/> 2. Both Statements I and II put together are not sufficient to answer the question.</p> <p><input type="checkbox"/> 3. Both Statements I and II put together (and not independently) are sufficient to answer the question.</p> <p><input type="checkbox"/> 4. Data in Statement I alone is sufficient to answer the question, while data in Statement II alone is not.</p>
Q.17	The average marks of a student in six subjects is 94. After re-evaluation in three subjects the marks were changed to 89 from 75, 90 from 82 and 88 from 80. In the remaining subjects, the marks remained unchanged. Find the new average marks.
Ans	<p><input checked="" type="checkbox"/> 1. 99</p> <p><input type="checkbox"/> 2. 95</p> <p><input type="checkbox"/> 3. 98</p> <p><input type="checkbox"/> 4. 97</p>

Q.18 A, B, C, D, E and F live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 6. E lives on an even numbered floor but not 6. The sum of floors on which A and E live is 7. F lives immediately above B. The sum of floors on which E and D live is 3. How many people live between A and D?

Ans 1. 1

2. 2

3. 3

4. 4

Q.19 Thermocol disposables are being widely used in parties and restaurants. By promoting this practice _____.

Ans 1. we are reducing expenses; disposables are cheap to use

2. we are increasing non-biodegradable waste

3. we are increasing the hygiene concern in us

4. we are making the waste biodegradable

Q.20 If the mean of the following data is 37, then the value of X is:

xi	20	30	40	85
fi	19	X	13	24

Ans 1. 124

2. 125

3. 107

4. 106

Q.21 The Khilafat committee was formed in Bombay, to defend temporal powers of Khalifa, in _____.

Ans 1. June 1919

2. July 1919

3. March 1919

4. January 1919

Q.22 What is the name of the Lunar Polar Exploration Mission, a collaboration with Japan's JAXA which was approved by India's National Space Commission in October 2024?

Ans 1. Lupex

2. SpaceX

3. Moonet

4. Mopex

Q.23 Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

OHA MFY KDW IBU ?

Ans 1. SGZ

2. GZS

3. SZG

4. GSZ

Q.24	Write the expanded form of $(5a + 7b + 3c)^2$.
Ans	<p><input type="checkbox"/> 1. $25a^2 + 49b^2 + 9c^2 + 70ab + 37bc + 30ac$</p> <p><input checked="" type="checkbox"/> 2. $25a^2 + 49b^2 + 9c^2 + 70ab + 42bc + 30ac$</p> <p><input type="checkbox"/> 3. $25a^2 + 49b^2 + 9c^2 + 74ab + 42bc + 30ac$</p> <p><input type="checkbox"/> 4. $25a^2 + 49b^2 + 9c^2 + 70ab + 42bc + 40ac$</p>
Q.25	<p>Select the letter-cluster pair that best represents a similar relationship to the one expressed in the pairs of letter-clusters given below.</p> <p>OQP : PTO VWV : WZU</p>
Ans	<p><input type="checkbox"/> 1. QEK : RHI</p> <p><input checked="" type="checkbox"/> 2. HFN : IIM</p> <p><input type="checkbox"/> 3. KND : LQF</p> <p><input type="checkbox"/> 4. NEO : OHL</p>
Q.26	Who is the author of 'Fiction as History: The Novel and the City in Modern North India,' published in 2019?
Ans	<p><input checked="" type="checkbox"/> 1. Vasudha Dalmia</p> <p><input type="checkbox"/> 2. Arundhati Roy</p> <p><input type="checkbox"/> 3. Salman Rushdie</p> <p><input type="checkbox"/> 4. Jhumpa Lahiri</p>
Q.27	<p>Select the letter-cluster pair that best represents a similar relationship to the one expressed in the pairs of letter-clusters given below.</p> <p>NGJ : OJE MHK : NKF</p>
Ans	<p><input type="checkbox"/> 1. XHJ : YKF</p> <p><input type="checkbox"/> 2. LMO : MOJ</p> <p><input type="checkbox"/> 3. JJK : KME</p> <p><input checked="" type="checkbox"/> 4. KNI : LQD</p>
Q.28	Manyakheta was the capital of which of following dynasties during the eighth century AD?
Ans	<p><input type="checkbox"/> 1. Pratiharas</p> <p><input checked="" type="checkbox"/> 2. Rashtrakuta</p> <p><input type="checkbox"/> 3. Chera</p> <p><input type="checkbox"/> 4. Pala</p>
Q.29	<p>Refer to the given number, symbol series and answer the question that follows. Counting to be done from left to right only. (Left) $7\ 5\ ^\wedge\ 5\ +\ \% \ 5\ 6\ \\$ \ 2\ 3\ * \ 6\ + \ 3 \ \& \ 4 \ ? \ \\$ \ # \ 6 \ 1 \ 2 \ 3 \ \& \ 6 \ 3 \ \% \ @$ (Right) How many such symbols are there each of which is immediately preceded by a number and immediately followed by another symbol?</p>
Ans	<p><input type="checkbox"/> 1. 1</p> <p><input type="checkbox"/> 2. 4</p> <p><input type="checkbox"/> 3. 2</p> <p><input checked="" type="checkbox"/> 4. 3</p>

Q.30	A shopkeeper bought an article for ₹760. At what price (in ₹) should he sell the article to make 30% profit?
Ans	<input type="checkbox"/> 1. 976
	<input checked="" type="checkbox"/> 2. 988
	<input type="checkbox"/> 3. 1000
	<input type="checkbox"/> 4. 532
Q.31	Which of the following Constitution Amendments empowers Parliament to establish common High court for two or more than two States?
Ans	<input type="checkbox"/> 1. 9 th Constitutional Amendment Act
	<input checked="" type="checkbox"/> 2. 7 th Constitutional Amendment Act
	<input type="checkbox"/> 3. 6 th Constitutional Amendment Act
	<input type="checkbox"/> 4. 8 th Constitutional Amendment Act
Q.32	An electric motor converts electrical energy into:
Ans	<input type="checkbox"/> 1. electron energy
	<input type="checkbox"/> 2. magnetic energy
	<input type="checkbox"/> 3. nuclear energy
	<input checked="" type="checkbox"/> 4. mechanical energy
Q.33	Two numbers are in the ratio 7 : 5. If the first number is increased by 14 and the second number is decreased by 5, then the ratio becomes 4 : 2. What is the sum of the original two numbers?
Ans	<input checked="" type="checkbox"/> 1. 96
	<input type="checkbox"/> 2. 106
	<input type="checkbox"/> 3. 111
	<input type="checkbox"/> 4. 115
Q.34	The cost of a washing machine is 40% less than the cost of a TV. If the cost of the washing machine increases by 64% and that of the TV decreases by 20%, then what is the change in the total cost of 5 washing machines and 7 TVs?
Ans	<input type="checkbox"/> 1. Increase by 13%
	<input type="checkbox"/> 2. Decrease by 4%
	<input checked="" type="checkbox"/> 3. Increase by 5.2%
	<input type="checkbox"/> 4. Decrease by 5%
Q.35	$\frac{(a^{10} \times b^3 \times c^9)}{(a^9 \times b^6 \times c^9)}$ in simplified form is:
Ans	<input type="checkbox"/> 1. $(a^{-1}) \times (b^{-3}) \times (c^{-10})$
	<input checked="" type="checkbox"/> 2. $(a^1) \times (b^{-3}) \times (c^0)$
	<input type="checkbox"/> 3. $(a^1) \times (b^{-9}) \times (c^{-7})$
	<input type="checkbox"/> 4. $(a^{-1}) \times (b^{-9}) \times (c^{-8})$
Q.36	Garden is an ecosystem because:
Ans	<input checked="" type="checkbox"/> 1. the living organisms in it interact with each other and are affected by abiotic components
	<input type="checkbox"/> 2. the living organisms in it interact with each other and are not affected by abiotic components
	<input type="checkbox"/> 3. it has both plants, trees and animals like insects, frogs, birds, etc., as biotic components
	<input type="checkbox"/> 4. it has only biotic components like plants, trees and flowers

Q.37 A man sold an article for ₹390 by first giving a d% discount on its marked price, and then another discount having the same nominal value (in ₹). If the marked price of the article is ₹3900, then what is the value of d?

- Ans** 1. 45
 2. 50
 3. 48
 4. 41

Q.38 If 214 apples were distributed among Ajay, Amit, and Amar in the ratio $\frac{1}{5} : \frac{1}{7} : \frac{1}{6}$, how many apples did the Amar get?

- Ans** 1. 80
 2. 70
 3. 40
 4. 100

Q.39 Match the Following:

Column A	Column B
1. Marginal Efficiency of Capital	A. Spending on consumer goods
2. Autonomous Investment	B. Tendency for employment to fluctuate
3. Consumption Function	C. Expected rate of return on investment
4. Paradox of Thrift	D. Investment independent of income
5. Cyclical Unemployment	E. Increased saving reduces total demand

- Ans** 1. 1 - C, 2 - D, 3 - A, 4 - E, 5 - B
 2. 1 - E, 2 - D, 3 - A, 4 - C, 5 - B
 3. 1 - B, 2 - D, 3 - A, 4 - E, 5 - C
 4. 1 - A, 2 - D, 3 - C, 4 - E, 5 - B

Q.40 What is the primary function of 'viharas' in Buddhist architecture?

- Ans** 1. To house relics
 2. To serve as residential places for Buddhist priests
 3. To serve as meditation halls
 4. To hold public gatherings

Q.41 44 men can do a piece of work in 48 days. The number of men required to complete the same work in 8 days is:

- Ans** 1. 260
 2. 264
 3. 266
 4. 261

Q.42 What industrial method is most typically used to produce sodium hydroxide (NaOH)?

- Ans** 1. Castner-Kellner process
 2. Haber process
 3. Electrolysis of brine
 4. Contact process

Q.43	What is the pH value of pure water at 25°C?
Ans	<input checked="" type="checkbox"/> 1. 3 <input checked="" type="checkbox"/> 2. 7 <input checked="" type="checkbox"/> 3. 5 <input checked="" type="checkbox"/> 4. 1
Q.44	PN is a secant intersecting a circle at points M and N such that $PN > PM$. A tangent PT is drawn to the circle touching it at T. If $PM = 32$ cm and $PT = 40$ cm, what is the length (in cm) of the chord MN?
Ans	<input checked="" type="checkbox"/> 1. 36 <input checked="" type="checkbox"/> 2. 50 <input checked="" type="checkbox"/> 3. 20 <input checked="" type="checkbox"/> 4. 18
Q.45	<p>Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.</p> <p>Statements: All ovals are bins. No bin is a car. No bin is a plum.</p> <p>Conclusions: (I): No oval is a car. (II): Some plums are cars.</p>
Ans	<input checked="" type="checkbox"/> 1. Neither conclusion (I) nor (II) follows. <input checked="" type="checkbox"/> 2. Both conclusions (I) and (II) follow. <input checked="" type="checkbox"/> 3. Only conclusion (II) follows. <input checked="" type="checkbox"/> 4. Only conclusion (I) follows.
Q.46	In May 2024, the Indian Air Force successfully tested its Arogya Maitri Disaster Management Cube in _____.
Ans	<input checked="" type="checkbox"/> 1. Mysuru <input checked="" type="checkbox"/> 2. Agra <input checked="" type="checkbox"/> 3. Bhuj <input checked="" type="checkbox"/> 4. Pokhran
Q.47	<p>What will come in the place of the question mark (?) in the following equation if '+' and '-' are interchanged and '×' and '÷' are interchanged?</p> $10 + 52 - 13 \times 4 \div 18 = ?$
Ans	<input checked="" type="checkbox"/> 1. 24 <input checked="" type="checkbox"/> 2. 26 <input checked="" type="checkbox"/> 3. 22 <input checked="" type="checkbox"/> 4. 19
Q.48	The average price of three items of furniture is Rs 16845. If their prices are in the ratio 3:5:7, the price of the cheapest item (in Rs) is
Ans	<input checked="" type="checkbox"/> 1. 7861 <input checked="" type="checkbox"/> 2. 3369 <input checked="" type="checkbox"/> 3. 5615 <input checked="" type="checkbox"/> 4. 10107

Q.49	In a certain code language, 'PLOT' is coded as '9137' and 'LIFE' is coded as '4872'. What is the code for 'L' in the given code language?
Ans	<p><input type="checkbox"/> 1. 4</p> <p><input type="checkbox"/> 2. 1</p> <p><input checked="" type="checkbox"/> 3. 7</p> <p><input type="checkbox"/> 4. 3</p>
Q.50	Which of the following categories are NOT a class of consumers?
Ans	<p><input type="checkbox"/> 1. Parasites</p> <p><input type="checkbox"/> 2. Herbivores</p> <p><input type="checkbox"/> 3. Carnivores</p> <p><input checked="" type="checkbox"/> 4. Producers</p>
Q.51	If a 1352 m long train crosses a pole in 169 seconds, then find the time (in seconds) taken by the train to cross a 256 m long platform.
Ans	<p><input type="checkbox"/> 1. 205</p> <p><input type="checkbox"/> 2. 193</p> <p><input checked="" type="checkbox"/> 3. 201</p> <p><input type="checkbox"/> 4. 195</p>
Q.52	Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only. (Left) 6 \$ < 8 1 ^ 3 * 2 @ 7 # 4 & 5 % @ 9 (Right) If all the symbols are dropped from the series, which of the following will be fifth from right?
Ans	<p><input checked="" type="checkbox"/> 1. 2</p> <p><input type="checkbox"/> 2. 7</p> <p><input type="checkbox"/> 3. 4</p> <p><input type="checkbox"/> 4. 5</p>
Q.53	If a conductor follows the Ohm's law, then the graph between current and voltage will be a/an _____.
Ans	<p><input type="checkbox"/> 1. hyperbola</p> <p><input type="checkbox"/> 2. parabola</p> <p><input checked="" type="checkbox"/> 3. straight line</p> <p><input type="checkbox"/> 4. ellipse</p>
Q.54	In which of the following cases did the Supreme Court mention that the Fundamental Right to Primary Education is the Right to Life under Article 21 of the Indian Constitution?
Ans	<p><input type="checkbox"/> 1. P Sambamurthy vs Union of India</p> <p><input checked="" type="checkbox"/> 2. Unni Krishnan vs State of Andhra Pradesh</p> <p><input type="checkbox"/> 3. Navtej Singh Johar vs Union of India</p> <p><input type="checkbox"/> 4. Shreya Singhal vs Union of India</p>
Q.55	Which ion reduces at the cathode during electrolysis of fresh brine solution?
Ans	<p><input type="checkbox"/> 1. Cl⁻</p> <p><input checked="" type="checkbox"/> 2. H⁺</p> <p><input type="checkbox"/> 3. OH⁻</p> <p><input type="checkbox"/> 4. Na⁺</p>

Q.56	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	<p>✓ 1. NJ – SO</p> <p>✗ 2. GB – KF</p> <p>✗ 3. MH – QL</p> <p>✗ 4. VQ – ZU</p>
Q.57	<p>What should come in place of the question mark (?) in the given series based on the English alphabetical order?</p> <p>VCF PWZ JQT DKN ?</p>
Ans	<p>✗ 1. EHX</p> <p>✓ 2. XEH</p> <p>✗ 3. XHE</p> <p>✗ 4. EXH</p>
Q.58	Rashi wants to make compost for her kitchen garden. She plans to use kitchen wastes. Which set of articles is best suited for her work?
Ans	<p>✓ 1. Peels of fruits, leftover vegetables, paper, torn cotton clothes.</p> <p>✗ 2. Peels of fruits, leftover vegetables, paper, packing sheets.</p> <p>✗ 3. Peels of fruits, leftover vegetables, plastic waste, thermocol cups.</p> <p>✗ 4. Peels of fruits, leftover vegetables, plastic waste, old mobile phone.</p>
Q.59	<p>What should come in place of the question mark (?) in the given series?</p> <p>180 131 90 57 32 ?</p>
Ans	<p>✗ 1. 22</p> <p>✗ 2. 20</p> <p>✗ 3. 17</p> <p>✓ 4. 15</p>
Q.60	If a resistor of $15\ \Omega$ carries a current of $2.5\ \text{A}$ for 12 seconds, the heat produced is _____ joules.
Ans	<p>✗ 1. 450</p> <p>✗ 2. 1800</p> <p>✓ 3. 1125</p> <p>✗ 4. 900</p>
Q.61	Mohan went to a cafe and ordered a soft drink. The waiter brought his order in a plastic glass with a plastic straw. Mohan, being environment friendly, is not happy as:
Ans	<p>✗ 1. plastic glass and plastic straw spoils the taste of the drink</p> <p>✓ 2. plastic glass and plastic straw is non biodegradable and persists in soil for a long time</p> <p>✗ 3. a plastic glass and plastic straw does not add to the standard of the cafe</p> <p>✗ 4. the plastic glass and plastic straw were not of his favourite colour</p>
Q.62	Write the expanded form of $(6a + 5b + 8c)^2$.
Ans	<p>✓ 1. $36a^2 + 25b^2 + 64c^2 + 60ab + 80bc + 96ac$</p> <p>✗ 2. $36a^2 + 25b^2 + 64c^2 + 60ab + 80bc + 106ac$</p> <p>✗ 3. $36a^2 + 25b^2 + 64c^2 + 64ab + 80bc + 96ac$</p> <p>✗ 4. $36a^2 + 25b^2 + 64c^2 + 60ab + 75bc + 96ac$</p>

Q.63	L is brother of K. Q is married to N. Z is mother of L. N is daughter of Z. P is wife of K. How is Q related to K?
Ans	<input checked="" type="checkbox"/> 1. Sister's husband <input type="checkbox"/> 2. Mother's father <input type="checkbox"/> 3. Father's brother <input type="checkbox"/> 4. Brother
Q.64	What should come in place of the question mark (?) in the given series? 18 49 18 45 18 41 18 ?
Ans	<input type="checkbox"/> 1. 31 <input type="checkbox"/> 2. 34 <input checked="" type="checkbox"/> 3. 37 <input type="checkbox"/> 4. 29
Q.65	If 'A' stands for '+', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-', then what will be come in place of the question mark (?) in the following equation? 13 D 32 C 36 B 49 A 49 = ?
Ans	<input type="checkbox"/> 1. 15 <input type="checkbox"/> 2. 18 <input type="checkbox"/> 3. 19 <input checked="" type="checkbox"/> 4. 17
Q.66	What is the average of all the natural numbers from 1 to 87?
Ans	<input type="checkbox"/> 1. 45 <input type="checkbox"/> 2. 44.5 <input type="checkbox"/> 3. 43.5 <input checked="" type="checkbox"/> 4. 44
Q.67	Evaluate 184^2
Ans	<input type="checkbox"/> 1. 33866 <input checked="" type="checkbox"/> 2. 33856 <input type="checkbox"/> 3. 33836 <input type="checkbox"/> 4. 33806
Q.68	In a redox reaction, reduction can be described as:
Ans	<input type="checkbox"/> 1. loss of electrons <input checked="" type="checkbox"/> 2. addition of hydrogen <input type="checkbox"/> 3. addition of an electronegative element <input type="checkbox"/> 4. addition of oxygen
Q.69	Which metal is placed at the top of the reactivity series?
Ans	<input type="checkbox"/> 1. Iron <input type="checkbox"/> 2. Copper <input type="checkbox"/> 3. Silver <input checked="" type="checkbox"/> 4. Potassium

Q.70	In a certain code, 'silence gold words' is coded as 'nu mh ke', 'gold is precious' is coded as 'mh bi py' and 'silence is calm' is coded as 'nu py gh'. What is the possible code for 'gold silence' in that language?
Ans	<input checked="" type="checkbox"/> 1. mh nu <input type="checkbox"/> 2. nu ke <input type="checkbox"/> 3. bi ke <input type="checkbox"/> 4. mh bi
Q.71	The Fleming's right hand rule is used to find the:
Ans	<input type="checkbox"/> 1. direction of the magnetic field associated with a current carrying conductor <input checked="" type="checkbox"/> 2. direction of the current of a current carrying conductor <input type="checkbox"/> 3. direction of the motion of the current carrying conductor <input type="checkbox"/> 4. direction of the gravitational field
Q.72	Which of the following teams won the 17 th Edition of Indian Premier League?
Ans	<input type="checkbox"/> 1. Mumbai Indians <input type="checkbox"/> 2. Chennai Superkings <input type="checkbox"/> 3. Delhi Capitals <input checked="" type="checkbox"/> 4. Kolkata Knight Riders
Q.73	Why do non-biodegradable wastes cause environmental problems?
Ans	<input type="checkbox"/> 1. They are toxic to plants only. <input checked="" type="checkbox"/> 2. They remain in the environment for a long time. <input type="checkbox"/> 3. They increase soil fertility. <input type="checkbox"/> 4. They can be easily recycled.
Q.74	Select the option in which the numbers share the same relationship as that shared by the given pair 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.) 12, 113 15, 140
Ans	<input type="checkbox"/> 1. 14, 126 <input type="checkbox"/> 2. 8, 67 <input type="checkbox"/> 3. 17, 136 <input checked="" type="checkbox"/> 4. 11, 104
Q.75	L, K, M, N, O and P are sitting around a circular table facing the centre. L sits fourth to the right of O. M sits second to the left of L. N is not the immediate neighbour of M. K sits second to the right of N. How many people are sitting between P and N, when counted from the left of N?
Ans	<input type="checkbox"/> 1. None <input checked="" type="checkbox"/> 2. One <input type="checkbox"/> 3. Two <input type="checkbox"/> 4. Three

Q.76	Which of the following states is also known as the 'Molassis basin', which is made up of soft unconsolidated deposits?
Ans	<input type="checkbox"/> 1. Assam
	<input type="checkbox"/> 2. Meghalaya
	<input type="checkbox"/> 3. Tripura
	<input checked="" type="checkbox"/> 4. Mizoram
Q.77	Among five people named A, B, C, D and E, each has a certain age. D is four times the age of C. A is two times the age of C. D is five times the age of B. The age of B is 12. If E is thrice the age of A, what is the age of E?
Ans	<input checked="" type="checkbox"/> 1. 90
	<input type="checkbox"/> 2. 94
	<input type="checkbox"/> 3. 92
	<input type="checkbox"/> 4. 88
Q.78	Which of the following options represents the correct Lewis structure for methane (CH ₄)?
Ans	<input checked="" type="checkbox"/> 1. A carbon atom bonded to four hydrogen atoms with single bonds
	<input type="checkbox"/> 2. A carbon atom bonded to one hydrogen atom with a double bond
	<input type="checkbox"/> 3. A carbon atom bonded to two hydrogen atoms with double bonds
	<input type="checkbox"/> 4. A carbon atom bonded to four hydrogen atoms with triple bonds
Q.79	Which of the following is/are responsible for the depletion of the ozone layer in the atmosphere?
Ans	<input checked="" type="checkbox"/> 1. Chlorofluorocarbons
	<input type="checkbox"/> 2. Hydrofluorocarbons
	<input type="checkbox"/> 3. Methane
	<input type="checkbox"/> 4. Ethane
Q.80	Consider a conductor in the plane of the paper with current going from bottom to the top. What will be the direction of the magnetic field lines to the left of the conductor?
Ans	<input type="checkbox"/> 1. Opposite to the direction of the current.
	<input type="checkbox"/> 2. Perpendicular to the plane of the paper and going in.
	<input type="checkbox"/> 3. In the direction of the current.
	<input checked="" type="checkbox"/> 4. Perpendicular to the plane of the paper and coming out.
Q.81	Why is the depletion of the ozone layer a concern for humans?
Ans	<input type="checkbox"/> 1. It leads to increased water pollution.
	<input checked="" type="checkbox"/> 2. It protects us from harmful radiation.
	<input type="checkbox"/> 3. It increases soil fertility.
	<input type="checkbox"/> 4. It promotes plant growth.
Q.82	Ravi has purchased an aquarium and was surprised to know that regular cleaning of aquariums is essential. Why does it have to be regularly cleaned?
Ans	<input type="checkbox"/> 1. Dead fish and plants may spoil the electric supply of the aquarium.
	<input type="checkbox"/> 2. Dead fish and plants are decomposed by microorganisms and smell bad.
	<input checked="" type="checkbox"/> 3. Dead fish and plants should be disposed of in the soil, not in water.
	<input type="checkbox"/> 4. Dead fish and plants may spoil the aeration system of the aquarium.

Q.83	A and B complete a work in 17 days. If A alone can do it in 34 days then, B alone can do in _____(days).
Ans	<input type="checkbox"/> 1. 33
	<input type="checkbox"/> 2. 35
	<input checked="" type="checkbox"/> 3. 34
	<input type="checkbox"/> 4. 36
Q.84	What impact does human activities have on the environment?
Ans	<input type="checkbox"/> 1. Only a positive impact
	<input type="checkbox"/> 2. No impact
	<input type="checkbox"/> 3. They help in waste disposal
	<input checked="" type="checkbox"/> 4. They contribute to environmental pollution
Q.85	If a wire is stretched to quadruple its length without changing its area, what will happen to its resistivity?
Ans	<input type="checkbox"/> 1. It halves.
	<input type="checkbox"/> 2. It quadruples.
	<input checked="" type="checkbox"/> 3. It remains the same.
	<input type="checkbox"/> 4. It doubles.
Q.86	Which of the following best describes why ionic compounds like potassium bromide (KBr) do NOT conduct electricity in solid form but do in molten form?
Ans	<input type="checkbox"/> 1. Solid KBr has weak ions that do not conduct electricity.
	<input type="checkbox"/> 2. In molten form, KBr decomposes into gaseous atoms.
	<input checked="" type="checkbox"/> 3. Ionic bonds prevent ion movement in solid KBr.
	<input type="checkbox"/> 4. Solid KBr consists of neutral atoms with no free electrons.
Q.87	Find the simple interest (in closest integral ₹) on ₹3000 at 8% per annum rate of interest for the period from 22 February 2024 to 23 April 2024
Ans	<input checked="" type="checkbox"/> 1. 40
	<input type="checkbox"/> 2. 39
	<input type="checkbox"/> 3. 41
	<input type="checkbox"/> 4. 38
Q.88	Evaluate: $16 + 18 \div 6 - 2 \times 3$
Ans	<input type="checkbox"/> 1. 16
	<input checked="" type="checkbox"/> 2. 13
	<input type="checkbox"/> 3. 12
	<input type="checkbox"/> 4. 15
Q.89	Which of the following is the correct definition of a homologous series?
Ans	<input type="checkbox"/> 1. A series of compounds with the same molecular mass
	<input type="checkbox"/> 2. A series of compounds having identical physical properties
	<input type="checkbox"/> 3. A series of compounds having different functional groups
	<input checked="" type="checkbox"/> 4. A series of compounds having the same functional group and similar chemical properties

Q.90	The marks scored by 10 students are given below. 14, 15, 16, 17, 10, 17, 19, 13, 14, 14 The mode of the data is:
Ans	<p><input type="checkbox"/> 1. 17</p> <p><input type="checkbox"/> 2. 16</p> <p><input type="checkbox"/> 3. 15</p> <p><input checked="" type="checkbox"/> 4. 14</p>
Q.91	Which of the following articles deals with the office of the special officer for Linguistic Minorities?
Ans	<p><input type="checkbox"/> 1. 351-B</p> <p><input checked="" type="checkbox"/> 2. 350-B</p> <p><input type="checkbox"/> 3. 351-A</p> <p><input type="checkbox"/> 4. 350-A</p>
Q.92	Express the value of $35.63 - 47.058 + 10.36 - 24.28 + 5.316 \times 5$ as a vulgar fraction.
Ans	<p><input type="checkbox"/> 1. $1\frac{21}{47}$</p> <p><input checked="" type="checkbox"/> 2. $1\frac{29}{125}$</p> <p><input type="checkbox"/> 3. $1\frac{31}{48}$</p> <p><input type="checkbox"/> 4. $2\frac{13}{58}$</p>
Q.93	Write the expanded form of $(8a + 5b + 9c)^2$.
Ans	<p><input type="checkbox"/> 1. $64a^2 + 25b^2 + 81c^2 + 84ab + 90bc + 144ac$</p> <p><input type="checkbox"/> 2. $64a^2 + 25b^2 + 81c^2 + 80ab + 85bc + 144ac$</p> <p><input checked="" type="checkbox"/> 3. $64a^2 + 25b^2 + 81c^2 + 80ab + 90bc + 144ac$</p> <p><input type="checkbox"/> 4. $64a^2 + 25b^2 + 81c^2 + 80ab + 90bc + 154ac$</p>
Q.94	Combination reaction can be represented as:
Ans	<p><input type="checkbox"/> 1. $ABC \rightarrow AB + C$</p> <p><input type="checkbox"/> 2. $AB + CD \rightarrow AD + CD$</p> <p><input type="checkbox"/> 3. $AB + C \rightarrow CB + A$</p> <p><input checked="" type="checkbox"/> 4. $AB + C \rightarrow ABC$</p>
Q.95	Find the value of $\frac{\cos 35^\circ}{\sin 55^\circ} - \frac{\sin 11^\circ}{\cos 79^\circ} + \cos 28^\circ \operatorname{cosec} 62^\circ + \cos 0^\circ$.
Ans	<p><input type="checkbox"/> 1. 1</p> <p><input type="checkbox"/> 2. -1</p> <p><input checked="" type="checkbox"/> 3. 2</p> <p><input type="checkbox"/> 4. 0</p>
Q.96	What do the magnetic field lines around a bar magnet represent?
Ans	<p><input type="checkbox"/> 1. The movement of electrons around the magnet</p> <p><input type="checkbox"/> 2. The flow of air around the magnet</p> <p><input checked="" type="checkbox"/> 3. The direction and strength of the magnetic field</p> <p><input type="checkbox"/> 4. The gravitational field</p>

Q.97 According to the Annual Report 2019-20 of the Ministry of Textiles, India's textile industry contributes what percentage to the industry output, in value terms?

Ans 1. 18%

2. 15%

3. 6%

4. 7%

Q.98 A, B, C, D, E, F and G live on seven different floors of the same building. The lowermost floor on the building is numbered 1, the floor above it, number 2 and so on, till the topmost floor is numbered 7. C lives on the sixth floor. Only three people live between C and F. A lives on an even numbered floor. D lives on one of the floors below B but immediately above F. E lives on one of the floors above C. Who lives on the lowermost floor?

Ans 1. G

2. F

3. E

4. B

Q.99 How many seats did the Bhartiya Janata Party win in the Jammu & Kashmir assembly elections held in 2024?

Ans 1. 29

2. 39

3. 19

4. 49

Q.100 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 ::?
: DHJ :: BFH : %

Ans 1. # = KNP, % = VZB

2. # = JNP, % = WZB

3. # = JNP, % = VZO

4. # = JNP, % = VZB