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# RRB ALP CBT 2 Previous Year Question Papers 2025 Shift 1

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Q.1 Which of the following ecosystems has very low temperatures and frozen soil?

1. Tundra
2. Grassland
3. Desert
4. Tropical rainforest

Correct answer: 1. Tundra

Q.2 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 conclusions logically follow(s) from the statements.

Statements:

Some bananas are litchis.

All litchis are kiwis.

Some kiwis are strawberries.

Conclusions:

1. All bananas being kiwis is a possibility.
2. All kiwis are litchis.

Correct answer: 3. Only conclusion 1 follows

Q.3 What is the term used to describe organisms that produce their own food in an ecosystem?

1. Producers
2. Herbivores
3. Consumers
4. Decomposers

Correct answer: 1. Producers

Q.4 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 is numbered 2 and so on till the topmost floor is numbered 6. D lives on an odd-numbered floor but not 3. The sum of floors on which D and E live is 7. A lives immediately below C. F lives on the top floor. How many people live between E and F?

1. 2
2. 4
3. 3
4. 1

Correct answer: 3. 3



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Q.5 Use of energy-efficient machineries in industrial settings primarily helps .

1. decrease operational efficiency
2. reduce industrial energy requirement and improve products' competitiveness.
3. increase energy consumption and thereby product cost
4. extend the lifespan of outdated equipment

Correct answer: 2. reduce industrial energy requirement and improve products' competitiveness.

Q.6 An ammeter has 20 divisions between 0 A and 2 A. The least count of ammeter is .

1. 0.2 A
2. 0.1 A
3. 2 A
4. 1 A

Correct answer: 2. 0.1 A

Q.7 The rate of doing work is known as .

1. power
2. force
3. kinetic energy
4. potential energy

Correct answer: 1. power

Q.8 Match the columns.

Engineering Applications / Type of Engineering Drawings

- A) Plan, front elevation of homes to be built, foundation drawings
- B) Circuit diagrams and Electrical installation drawings
- C) PCB tracks drawings
- D) Riveted joints and Welded joints
- P) Mechanical Engineering Drawings
- Q) Electronics Engineering drawings
- R) Electrical Engineering drawings
- S) Civil Engineering drawings

1. A-S ; B-R ; C-P ; D-Q
2. A-S ; B-R ; C-Q ; D-P
3. A-P ; B-R ; C-Q ; D-S
4. A-S ; B-P ; C-Q ; D-R

Correct answer: 2. A-S ; B-R ; C-Q ; D-P



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Q.9 The area of a regular polygon with a side of 8 cm is  $112 \text{ cm}^2$ . If the perpendicular distance from the centre to the side of the polygon is 7 cm, then the number of sides of the polygon is:

1. 6
2. 7
3. 5
4. 4

Correct answer: 4. 4

Q.10 Which of the following is a geometrical figure with a three-dimensional geometry that has eight vertices and six rectangular faces?

1. Cuboid
2. Parallelogram
3. Cylinder
4. Pyramid

Correct answer: 1. Cuboid

Q.11 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Which numbers should replace X and Y so that the pattern followed by the two numbers on the left side of :: is same as that on the right side of ::?  
(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.)

$X : 85 :: 36 : Y$

1.  $X = 43, Y = 77$
2.  $X = 44, Y = 73$
3.  $X = 42, Y = 71$
4.  $X = 42, Y = 73$

Correct answer: 4.  $X = 42, Y = 73$

Q.12 Two plumbers, X and Y, are paid a total of ₹770 per day by their employer. If X is paid 140% of the sum paid to Y, then how much is Y paid (in ₹, rounded off to two decimal places) per day?

1. 320.83
2. 270.83
3. 220.83



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4. 370.83

Correct answer: 1. 320.83

Q.13 Which of the following statements is/are true about Functional Dimensions (F) in engineering drawing?

Statement 1: Functional Dimensions are essential to the function of the component or space.

Statement 2: Functional Dimensions are typically shown without limits.

Statement 3: Functional Dimensions are only shown for reference purposes.

1. Only statements 1 and 2 are true
2. Only statement 1 is true
3. Only statement 3 is true
4. Only statements 2 and 3 are true

Correct answer: 2. Only statement 1 is true

Q.14 Which of the following is true?

1. Both insulators and conductors allow heat to pass through them easily.
2. Wood is a good conductor of heat.
3. Plastic is a good conductor of heat.
4. In a kitchen, aluminium vessels are used because aluminium is a good conductor of heat.

Correct answer: 4. In a kitchen, aluminium vessels are used because aluminium is a good conductor of heat.

Q.15 What should come in place of the question mark (?) in the given series?

185 174 163 152 ? 130

1. 143
2. 142
3. 144
4. 141

Correct answer: 4. 141

Q.16 In the following triad, each group of letters is related to the subsequent one following a certain logic. Select from the given options, the one which follows the same logic.

TERM-ERTM-TMRE

1. USER-RESU-REUS
2. VICE-ICVE-VECI

3. WHEN–HWEN–WENH
4. ZERO–EZRO–ZREO

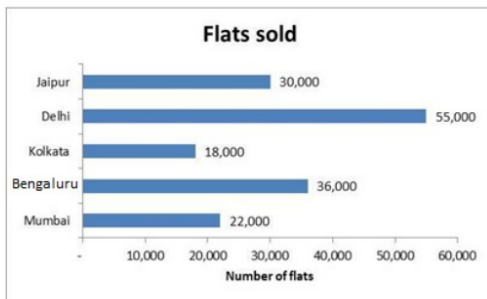
Correct answer: 2. VICE–ICVE–VECI

Q.17 Which of the following is the work done by the gravitational force on the object of mass 50 kg when the object is moved from one point to another point along a horizontal line ( $g = 10 \text{ m/s}^2$ )?

1. 50 J
2. Zero
3. 500 J
4. -500 J

Correct answer: 2. Zero

Q.18 Study the given bar-graph and answer the question that follows. The given bar-graph indicates the number of flats sold by a builder in five different cities in 2020. The number of flats sold in Delhi is what percentage more than the number of flats sold in Mumbai?



1. 150%
2. 75%
3. 120%
4. 125%

Correct answer: 1. 150%

Q.19 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 ::?

: HDI :: MIN : %

1. # = JFK, % = KGM
2. # = JFK, % = KGL
3. # = JFI, % = KGL



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4. # = JFK, % = KHL

Correct answer: 2. # = JFK, % = KGL

Q.20 Work done is defined in science as .

1. force/displacement
2. force  $\times$  distance
3. force  $\times$  displacement
4. force/distance

Correct answer: 3. force  $\times$  displacement

Q.21 From a rectangular cardboard sheet of length 46 m and breadth 8 m, three circular plates of radii 3 m, 2 m and 1 m are cut out. If the area of the remaining part of the cardboard sheet is equal to the area of a square, then find the length of each side of the square (use  $\pi = 22/7$ ).

1. 18 m
2. 14 m
3. 16 m
4. 20 m

Correct answer: 1. 18 m

Q.22 In hot climate regions, the outer walls of the house are preferred to be white in colour because .

1. white colour looks good
2. white colour makes the wall more durable
3. white colour absorbs more sunlight to make the house bright
4. white colour reflects sunlight to make the interior of the house cool

Correct answer: 4. white colour reflects sunlight to make the interior of the house cool

Q.23 Convert 1 kilowatt hour (kW h) into joule.

1. 1 kW h =  $3.6 \times 10^5$  J
2. 1 kW h =  $3.6 \times 10^3$  J
3. 1 kW h =  $3.6 \times 10^7$  J
4. 1 kW h =  $3.6 \times 10^6$  J

Correct answer: 4. 1 kW h =  $3.6 \times 10^6$  J

Q.24 A fruit seller initially had some apples. He sold 40% of those and still had 300 apples. How many apples did he initially have?

1. 600
2. 450



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3. 500

4. 750

Correct answer: 3. 500

Q.25 Ten people are sitting in two parallel rows with five people each in such a way that there is equal distance between adjacent persons. In row I, A, B, C, D and E are seated and all of them are facing south. In row II, R, S, T, U and V are seated and all of them are facing north. Thus each person faces another person from the other row. A sits at the extreme right end of their row and is facing U. R sits at the centre of their row and is facing C. E sits between C and D and is facing T. S sits at the extreme right end of their row. Who sits exactly opposite B?

1. U

2. T

3. R

4. V

Correct answer: 4. V

## Questions 26–50

Q.26 Which of the following is the safest method for disposing of toxic dust?

1. Dumping it in regular trash bins
2. Releasing it into the air for dilution
3. Sweeping it into open areas
4. Using specialised hazardous waste disposal containers

Correct answer: 4. Using specialised hazardous waste disposal containers

Q.27 What is the total circuit resistance if it contains resistors  $10\ \Omega$ ,  $20\ \Omega$  and  $60\ \Omega$ , connected in parallel?

1.  $90\ \Omega$

2.  $60\ \Omega$

3.  $20\ \Omega$

4.  $6\ \Omega$

Correct answer: 4.  $6\ \Omega$

Q.28 What should come in place of the question mark (?) in the given alpha-numeric series?

G5, I10, L15, N20, Q25, S30, ?



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1. W35
2. V35
3. V40
4. U35

Correct answer: 2. V35

Q.29 Find the value of  $x^2 + y^2$ , given the following.

$$x = 7 + \sqrt{5}, y = 7 - \sqrt{5}$$

1. 124
2. 96
3. 108
4. 137

Correct answer: 3. 108

Q.30 Which of the following relations is NOT correct?

1. Electric Power = (Current)<sup>2</sup> × Resistance
2. Electric Power = (Voltage)<sup>2</sup> / Resistance
3. Electric Power = Voltage / Current
4. Electric Power = Voltage × Current

Correct answer: 3. Electric Power = Voltage / Current

Q.31 Which of the following statements is/are true?

Statement 1: Heat conductors allow heat to pass through them easily.

Statement 2: All plastics are good conductors of heat.

1. Neither statement 1 nor 2
2. Only statement 2
3. Both statements 1 and 2
4. Only statement 1

Correct answer: 4. Only statement 1

Q.32 Refer to the following letter and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) ^ T J # \* £ B L R Ω Y # E % S U \$ K Q & (Right)

How many such letters are there, each of which is immediately preceded by a letter and also immediately followed by a symbol?

1. Four
2. Three
3. Two
4. One

Correct answer: 1. Four



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Q.33 Which of the following is a supplementary protocol that allows non-ASCII data to be sent through e-mail?

1. Multipurpose Internet Mail Extensions (MIME)
2. DNS
3. HTTPS
4. Mailing Lists

Correct answer: 1. Multipurpose Internet Mail Extensions (MIME)

Q.34 An ammeter of range 0 to 10 A shows a current of 7.5 A. If its true value is 6.2 A, the relative error is .

1. 17.33%
2. 4.8%
3. 13%
4. 20.96%

Correct answer: 4. 20.96%

Q.35 Jaspreet deposited a sum of ₹58,550 at 20% rate of interest per annum, compounded annually. The total amount (in ₹) received by Jaspreet after 2 years will be:

1. 83,876
2. 84,312
3. 84,735
4. 84,700

Correct answer: 2. 84,312

Q.36 Which of the following expressions is NOT correct for electric power?

1.  $P = I^2R$
2.  $P = I^2/R$
3.  $P = VI$
4.  $P = V^2/R$

Correct answer: 2.  $P = I^2/R$

Q.37 A piece of rod  $\frac{8}{9}$  metre long is broken into two pieces. If one piece is  $\frac{1}{3}$  metre long, find the length (in m) of the other piece.

1.  $\frac{4}{9}$
2.  $\frac{7}{9}$
3.  $\frac{5}{9}$



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4. 2/9

Correct answer: 3. 5/9

Q.38 Which of the following noise levels is considered potentially harmful to human health if experienced over extended periods?

1. 30 dB
2. 90 dB
3. 70 dB
4. 50 dB

Correct answer: 2. 90 dB

Q.39 Kinetic energy and potential energy together are called which form of energy?

1. Chemical
2. Mechanical
3. Thermal
4. Nuclear

Correct answer: 2. Mechanical

Q.40 What should be done immediately after a fuel spillage in a workshop?

1. Leave it unattended and inform the supervisor later
2. Use water to wash it away
3. Cover it with plastic to prevent evaporation
4. Evacuate the area and contain the spill using absorbent materials

Correct answer: 4. Evacuate the area and contain the spill using absorbent materials

Q.41 The areas of three adjacent faces of a solid cuboid are 216 cm<sup>2</sup>, 114 cm<sup>2</sup> and 19 cm<sup>2</sup>. What is the volume (in cm<sup>3</sup>) of the cuboid?

1. 532
2. 880
3. 684
4. 955

Correct answer: 3. 684

Q.42 What is the primary source of energy for most of the ecosystems?

1. Water
2. Sunlight
3. Soil



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4. Wind

Correct answer: 2. Sunlight

Q.43 How many base units are used to measure the physical quantities, according to SI units system?

1. 5
2. 4
3. 10
4. 7

Correct answer: 4. 7

Q.44 If 'A' stands for ' $\div$ ', 'B' stands for ' $\times$ ', 'C' stands for '+' and 'D' stands for '-', what will come in place of the question mark (?) in the following equation?

$38 C 32 A 4 D 5 B 7 = ?$

1. 9
2. 10
3. 11
4. 8

Correct answer: 3. 11

Q.45 Which of the following will verify the credentials and documents of applicants uploaded on National Scholarship Portal?

1. University/Institute in which applicant is studying
2. National Scholarship Portal
3. Third party
4. Government

Correct answer: 1. University/Institute in which applicant is studying

Q.46 A cube with a mass of 5.74 g occupies a volume of 1.2 cm<sup>3</sup>. The density (in g/cm<sup>3</sup>) expressed with the correct number of significant figures is .

1. 4.8
2. 4.78
3. 4.783
4. 4.7833

Correct answer: 1. 4.8

Q.47 The weight of an object on Earth is 60 N. What is its weight on the surface of the moon?



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1. 60 N
2. 6 N
3. 600 N
4. 10 N

Correct answer: 4. 10 N

Q.48 Which of the following orders of components is primarily responsible for executing instructions, storing permanent firmware, temporarily storing data during program execution and providing a platform for interconnecting hardware components on a computer motherboard?

1. CPU - ROM - RAM - PCB
2. CPU - RAM - ROM - PCB
3. RAM - ROM - CPU - PCB
4. PCB - ROM - CPU - RAM

Correct answer: 2. CPU - RAM - ROM - PCB

Q.49 In the SI system, which of the following options best describes the base quantities?

1. Distance, speed, acceleration
2. Length, mass, time
3. Temperature, pressure, volume
4. Force, power, energy

Correct answer: 2. Length, mass, time

Q.50 Eight people are sitting in two parallel rows containing 4 people each in such a way that there is equal distance between adjacent persons. In row 1, A, B, C and D are seated, and all of them are facing south. In row 2, P, Q, R and S are seated, and all of them are facing north. Thus, each person faces another person from the other row. Only two people sit between P and Q. A faces the person sitting to the immediate left of P. R sits to the immediate left of S. D sits to the immediate right of C. Who among the following faces P?

1. A
2. B
3. C
4. D

Correct answer: 2. B

Q.51 Which of the following actions can help prevent slip and fall injuries?



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1. Ignoring clutter in walkways
2. Wearing loose footwear for comfort
3. Cleaning up spills immediately and using warning signs
4. Walking on wet floors carefully

Correct answer: 3. Cleaning up spills immediately and using warning signs

Q.52 A man purchased two varieties of pens at the rates of ₹8 for 9 pens and ₹8 per pen. If he purchased an equal number of pens of each of the two varieties and then sold all his pens at ₹6 per pen, what was his profit percentage?

1. 33%
2. 45%
3. 35%
4. 32%

Correct answer: 3. 35%

Q.53 Ganpat starts from Point A and walks 18 m towards west. He takes a left turn, walks 32 m, takes a left turn, walks 26 m, turns left, walks 61 m and stops at Point B. Meena starts from Point Z, which is 22 m towards the east of Point A. She walks 42 m towards north, takes a right turn, walks 35 m, turns right and walks 13 m and stops at Point Y. What is the shortest distance between Point B and Point Y? (All turns are 90-degree turns only.)

1. 52 m
2. 49 m
3. 57 m
4. 43 m

Correct answer: 2. 49 m

Q.54 Which of the following statements is correct about negative work done?

1. Work done cannot be negative.
2. Work done is negative when the force and displacement are in the same direction.
3. Work done is negative when the force is perpendicular to the displacement.
4. Work done is negative when the force acts opposite to the direction of displacement.

Correct answer: 4. Work done is negative when the force acts opposite to the direction of displacement.



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Q.55 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.)

1. AH – JR
2. GN – PV
3. HO – QW
4. JQ – SY

Correct answer: 1. AH – JR

Q.56 A 280 m long train running at a speed of 72 km/hr passes a platform in 30 seconds. Find the length of the platform (in m).

1. 335
2. 320
3. 280
4. 300

Correct answer: 2. 320

Q.57 Amit's income in 2019 was ₹27,000. He gets an increment of 10% every year. What was his income (in ₹) in 2021?

1. 27,000
2. 32,670
3. 29,700
4. 32,400

Correct answer: 2. 32,670

Q.58 In a certain code language,  
'A + B' means 'A is the mother of B',  
'A – B' means 'A is the brother of B',  
'A × B' means 'A is the wife of B' and  
'A & B' means 'A is the father of B'.

How is E related to T if 'E & F + G – H × T'?

1. Wife's mother's father
2. Wife's mother's brother
3. Wife's brother
4. Wife's father

Correct answer: 1. Wife's mother's father

Q.59 What does the symbol given below denote in a circuit diagram?



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1. Voltmeter
2. Variable resistor
3. Voltage source
4. Resistor

Correct answer: 2. Variable resistor

Q.60 A dozen pairs of jeans quoted at ₹3,520 are available at a discount of 35%. How many pairs of jeans can be bought for ₹572?

1. 3
2. 5
3. 1
4. 2

Correct answer: 1. 3

Q.61 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.

Statements:

- I. Some desks are tables.
- II. All tables are cabinets.
- III. All cabinets are beds.

Conclusions:

- I. Some beds are tables.
  - II. All cabinets are desks.
1. Neither conclusion I nor conclusion II follows.
  2. Only conclusion I follows.
  3. Only conclusion II follows.
  4. Both conclusions I and II follow.

Correct answer: 2. Only conclusion I follows.



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Q.62 In a certain code language, 'CARD' is coded as '8674' and 'MICE' is coded as '3517'. What is the code for 'C' in the given code language?

1. 7
2. 1
3. 8
4. 6

Correct answer: 1. 7

Q.63 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.)

1. FLNS
2. LRTY
3. GMOT
4. NTVB

Correct answer: 4. NTVB

Q.64 Four resistors of 4 ohm each are connected in parallel. Four such parallel combinations are then connected in series. The equivalent resistance is .

1. 3 ohm
2. 2 ohm
3. 1 ohm
4. 4 ohm

Correct answer: 4. 4 ohm

Q.65 The average of three numbers is 20. If two numbers are 16 and 24, the third number is:

1. 22
2. 19
3. 20
4. 21

Correct answer: 3. 20



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Q.66 Vijay rides a bicycle 10 m from home to his tuition, then 5 m to a shop. He travels back home the same way, covering the same distance.

What is his total path length?

1. Zero
2. 30 m
3. 15 m
4. 20 m

Correct answer: 2. 30 m

Q.67 Each of Preeti, Kiran, Grace, Ankit, Deepak, Nitin and Neelam has an exam on a different day of a week, starting from Monday and ending on Sunday of the same week. Preeti has an exam on Thursday. Only one person has an exam between Preeti and Nitin. Grace has exam on the day immediately before Nitin but not on a Monday. Only two people have exams between Grace and Deepak. Neelam's exam is on one of the days before Ankit's but on one of the days after Kiran's. Who among the following has an exam on Monday?

1. Deepak
2. Nitin
3. Neelam
4. Kiran

Correct answer: 4. Kiran

Q.68 Which of the following statements regarding the use of a fire extinguisher is/are correct?

Statement 1: It is safe to attempt to extinguish any fire regardless of the presence of toxic smoke.

Statement 2: The P.A.S.S. technique, which stands for Pull, Aim, Squeeze and Sweep, is recommended for the effective use of a fire extinguisher.

1. Both Statements 1 and 2 are correct.
2. Only Statement 2 is correct.
3. Neither Statement 1 nor 2 is correct.

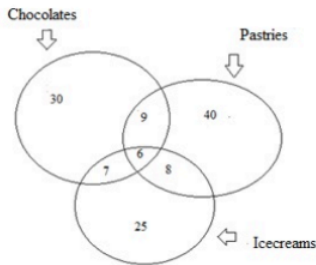
4. Only Statement 1 is correct.  
Correct answer: 2. Only Statement 2 is correct.

Q.69 Which of the following best describes the primary function of a digital signature in electronic communication?

1. It automatically archives all electronic documents for future reference.
2. It allows the recipient to edit the document before signing.
3. It encrypts the entire message content to ensure privacy.
4. It verifies the identity of the sender and ensures the integrity of the message.

Correct answer: 4. It verifies the identity of the sender and ensures the integrity of the message.

Q.70 Study the given diagram carefully and answer the question that follows. The numbers in different sections indicate the number of children preferring different desserts. How many children prefer both pastries and ice creams but NOT chocolates?



1. 7
2. 8
3. 6
4. 9

Correct answer: 2. 8

Q.71 Megha bought a bag for ₹1,271 after getting a discount of 18% on its marked price. Find the marked price of the bag.

1. ₹1,450
2. ₹1,550
3. ₹1,350

4. ₹1,650

Correct answer: 2. ₹1,550

Q.72 The sum of the ages of Yash and his father is 90 years. When Yash is as old as his father's present age, he will be five times as old as his son Suraj's present age. Suraj will be 12 years older than Yash's present age, when Yash is as old as his father at present. How old is Suraj at present?

1. 15 years
2. 18 years
3. 12 years
4. 16 years

Correct answer: 3. 12 years

Q.73 Simplify  $976 \times 265 + 976 \times 735$ .

1. 876000
2. 976000
3. 752800
4. 658200

Correct answer: 2. 976000

Q.74 What should come in place of the question mark (?) in the given series?

893 891 889 887 ? 883

1. 985
2. 885
3. 886
4. 986

Correct answer: 2. 885

Q.75 The average of 5 results is 51 and that of the first 4 is 50. The 5th result is .

1. 50
2. 55
3. 51
4. 54

Correct answer: 2. 55