RRB ALP CBT-1 Exam Day Based Paper 3 Nov 2026-exam

Q1. Each of the digits in the number 9237561 is arranged in ascending order from left to right. The position of how many digits will remain unchanged as compared to that in the original number?
(a) Two
(b) Four
(c) Three
(d) One
Ans.(a)

Q2. At present, Vanraj is three times as old as his son, and his daughter is 3 years younger than the son. If the sum of the ages of these three people 3 years ago was 73 years, then Vanraj's present age (in years) is:
(a) 51
(b) 60
(c) 53
(d) 57
Ans.(a)

Q3. 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 is the one that does not belong to that group?
(a) MN-QR
(b) FG-IJ
(c) CD-FG
(d) PQ-ST
Ans.(a)

Q4. This question is based on the following words.
(Left) SKY ITS NOT LTD (Right)
In each of the words, each vowel is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. In how many letter-clusters thus formed, will no vowel appear?
(a) Two
(b) One
(c) Three
(d) Four
Ans.(d)

Q5. The surface area of a sphere of radius 4 cm is eight times the area of the curved surface area of a cone whose radius 2 cm. Find the volume of the cone.
(a) $\frac{2\pi}{\sqrt{3}} cm^3$
(b) $\frac{4\pi}{\sqrt{3}} cm^3$
(c) $\frac{8\pi}{\sqrt{3}} cm^3$
(d) $\frac{6\pi}{\sqrt{3}} cm^3$

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Ans.(c)

Q6. LOQK is related to SVXR in a certain way based on the English alphabetical order. In the same way, ILNH is related to PSUO. To which of the following is FIKE related, following the same logic?
(a) MPRL
(b) PMLR
(c) MPLR
(d) PMRL
Ans.(a)

Q7. If 2 is added to each even digit and 2 is added to each odd digit in the number 3761254, what will be the sum of the last two and the first two digits in the new number thus formed?
(a) 20
(b) 23
(c) 29
(d) 27
Ans.(d)

Q8. If a = $\sqrt{3481}$ and b = $\sqrt{2209}$, then find the value of $(a^2 - b^2) \div (a - b)$.
(a) 96
(b) 104
(c) 106
(d) 112
Ans.(c)

Q9. Seven boxes, C, F, J, N, Q, S and V are kept one over the other but not necessarily in the same order. Only Q is kept above F. Only V is kept between J and S. Only N is kept below J. How many boxes are kept between C and N?
(a) Two
(b) Three
(c) One
(d) Four
Ans.(b)

Q10. 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 :: ?
: XHP :: UEM : %
(a) # = NXF, % = EKW
(b) # = NOF, % = EOW
(c) # = NXF, % = EOO
(d) # = NXF, % = EOW
Ans.(d)

Q11. Which country secured the top position in the Global AI Brain Race Report 2026?
(a) China
(b) Singapore
(c) United States
(d) United Kingdom
Ans.(c)

Q12. In the question, assuming the given statements to be true, find which of the given conclusions is/are definitely true, and then give your answer according to it.
Statements: L ≥ M > N = O < P ≤ Q = R
Conclusions:
I. L > O
II. N < R
III. M > P
(a) Only conclusion I is true.
(b) Only conclusion I and II are true.
(c) Only conclusion II and III are true.
(d) All conclusions I,II,III are true.
Ans.(b)

Q13. A person wearing shoes with total area 0.02 m^2 stands on the ground. If the person's weight is 600 N, the pressure on the ground is
(a) 600 N/m^2
(b) 1200 N/m^2
(c) 30,000 N/m^2
(d) 12,000 N/m^2
Ans.(c)

Q14. Refer to the given letter series and answer the question that follows. Counting to be done from left to right only.
(Left) B G P W P Z L Q J K V I V Z E R I F F M I (Right)
How many such consonants are there each of which is immediately preceded by a consonant and also immediately followed by a vowel?
(a) Four
(b) One
(c) Two
(d) Three
Ans.(d)

Q15. In a certain code language,
Q + W means 'Q is the father of W',
Q @ W means 'Q is the brother of W',
Q $ W means 'Q is the mother of W', and
Q # W means 'Q is the sister of W'.
Based on the above, how is N related to S if ' N @ R + K @ S '?
(a) Son
(b) Brother's son
(c) Father's brother
(d) Brother
Ans.(c)

Q16. A, B, C, D, E, F and G sit around a circular table, facing the centre.
D sits to the immediate left of G. F sits to the immediate left of C. C sits second to the left of E. A sits third to the left of G.
Who sits third to the right of G?
(a) F
(b) E
(c) A
(d) C
Ans.(d)

Q17. Starting from rest, Raju attains a velocity of 24 m/s in a minute with his bicycle. The acceleration of the bicycle is:
(a) 0 m/s^2
(b) 0.6 m/s^2
(c) 0.4 m/s^2
(d) 0.2 m/s^2
Ans.(c)

Q18. In each of the words, each vowel is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. In how many letter-clusters thus formed, will no vowel appear?
This question is based on the following words.
FUN TOP MIX LED
(a) Three
(b) One
(c) None
(d) Two
Ans.(d)

Q19. 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:
All streams are canals. Some canals are rivers. Some rivers are seas.
Conclusions:
(I) Some seas are streams.
(II) Some rivers are streams.
(a) Only conclusion (I) follows.
(b) Only conclusion (II) follows.
(c) Neither conclusion (I) nor (II) follows.
(d) Both conclusions (I) and (II) follow.
Ans.(c)

Q20. A convex lens of focal length {20 cm} in air is immersed completely in water of refractive index {4/3}. If the refractive index of glass is {3/2}, the new focal length of the lens in water is
(a) {40 cm}
(b) {80 cm}
(c) {60 cm}
(d) {100 cm}
Ans.(b)

Q21. A and B started a business investing ₹45,000 and ₹60,000, respectively. After 4 months, C joined them with ₹75,000. If the total profit at the end of the year is ₹62,000, find the difference (in ₹) between the shares of B and C in the profit.
(a) 4,000
(b) 8,000
(c) 7,000
(d) 6,000
Ans.(a)

Q22. AB is parallel to CD. A transversal PQ intersects AB and CD at E and F, respectively, and ∠PEB = 49°. G is a point between AB and CD such that ∠BEG = 29° and ∠GFE = 24°. What is the measure of ∠EGF?
(a) 54°
(b) 62°
(c) 60°
(d) 66°
Ans.(a)

Q23. In the question, a statement is given followed by two inferences. You must consider the statement to be true even if it seems to be at variance from commonly known facts and then decide which inference(s) can be drawn from the given statement.
Statement: "Use Metro trains to reduce traffic congestion and air pollution in the city." - A government appeal.
Assumptions:
I. Metro trains are an more eco-friendly mode of transport.
II. People contribute to pollution and traffic by using personal vehicles.
(a) If only I follows
(b) If only II follows
(c) If only III follows
(d) If both I and II follow
Ans.(d)

Q24. Find the value of
$\frac{\sin A-2\sin^3 A}{2\cos^3 A-\cos A}+\sqrt{\text{cosec}^2 A-1}$.
(a) secA cosecA
(b) cosec^2A
(c) $\sec^2$A
(d) secA
Ans.(a)

Q25. If the mean of a data is 65 and its mode is 23 then the median using empirical formula is:
(a) 53
(b) 54
(c) 51
(d) 52
Ans.(c)

Q26. A shopkeeper marked an item 50% above the cost price and gave a 10% discount on the marked price. If the final selling price was ₹540, find the cost price.
(a) ₹350
(b) ₹400
(c) ₹450
(d) ₹380
Ans.(b)

Q27. Select the triad which follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.
CLAP-APCL-ACPL
DIRT-RTDI-RDTI
(a) MEAT-ATME-TMAE
(b) HAIL-LAIH-HIAL
(c) MADE-DEAM-MAED
(d) LION-ONLI-OLNI
Ans.(d)

Q28. From the Constitution of which country did the Indian Constitution borrow the provision for the 'Procedure for amendment of the Constitution'?
(a) USA
(b) Japan
(c) Australia
(d) South Africa
Ans.(d)

Q29. A vendor buys 22 laptop bags for ₹43,670 and sells them at 20 for ₹39,760. How many laptop bags should be bought and sold at this rate, to earn a total profit of ₹1,227?
(a) 397
(b) 388
(c) 417
(d) 409
Ans.(d)

Q30. D, E, F, G, S, T and U are sitting around a circular table facing the centre. U sits to the immediate right of G. Only three people sit between U and E when counted from the left of U. Only three people sit between G and T when counted from the left of G. D sits to the immediate right of S. How many people sit between F and S when counted from the left of S?
(a) Three
(b) Two
(c) Four
(d) One
Ans.(b)

Q31. What should come in place of '?' in the given series?
80, 55, 39, 30, 26, ?
(a) 28
(b) 23
(c) 26
(d) 25
Ans.(d)

Q32. Two trains of equal length are running on parallel lines in the same direction at speeds of 39 km/h and 21 km/h. The faster train passes the slower train in 26 seconds. The length of each train is:
(a) 80 meters
(b) 65 meters
(c) 45 meters
(d) 48 meters
Ans.(b)

Q33. A university enrollment system uses an 11-digit student ID. This ID is composed of: the first 2 digits for the Faculty Code, the subsequent 4 digits for the Centre Code, and the final 5 digits for the Student's Unique Identifier.
Question: If a student's ID is 42987654321, what is the Centre Code for this student?
(a) 42
(b) 9876
(c) 54321
(d) 4298
Ans.(b)

Q34. If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '–', then what will come in place of the question mark (?) in the following equation?
22 A 11 C 3 B 7 D 6 = ?
(a) 15
(b) 17
(c) 14
(d) 13
Ans.(b)

Q35. In the following question, four words are given, out of which three are similar in meaning or belong to the same category or group. Identify the word that does not belong to the group. Choose the option that is different from the others based on semantic classification.
(a) Sheep
(b) Goat
(c) Cat
(d) COW
Ans.(c)

Q36. What is the mode of the following data?
48, 42, 46, 42, 44, 43, 48, 49, 48, 45, 53, 46, 47, 47, 49, 53, 50, 41
(a) 42
(b) 48
(c) 46
(d) 47
Ans.(b)

Q37. A milk man mixes 40lit of water with 80 lit of milk. After selling 25% of this mixture, he adds water to replenish quantity that he has sold. What is the current proportion of water to milk?
(a) 2:1
(b) 1:2
(c) 1:1
(d) 2:3
Ans.(c)

Q38. Match Column I (Type of Joint} with Column II (Primary Function}:
Column I
1 Ball and socket joint
2 Hinge joint
3 Pivot joint
4 Gliding joint
Column II A. Allows rotation of one bone around another (e.g., neck} B. Allows movement in one plane like opening and closing (e.g., knee} C. Allows sliding movements between bones (e.g., wrist & ankles} D. Allows movement in many directions including rotation (e.g., shoulder}
Choose the correct matching combination:
(a) 1-A, 2-C, 3-B, 4-D
(b) 1-B, 2-A, 3-D, 4-C
(c) 1-C, 2-D, 3-A, 4-B
(d) 1-D, 2-B, 3-A, 4-C
Ans.(d)

Q39. Refer to the following letter, number and symbol series and answer the question that follows.
(NOTE: All numbers are single-digit numbers only.)
(Left) H 2 @ Q I 3 L © £ R S 4 4 U © 9 1 W Y % 6 £ (Right)
If all the symbols are dropped from the series, which of the following will be fifth from the left?
(a) 3
(b) R
(c) L
(d) I
Ans.(a)

Q40. A man travels from City A to City B at a speed of 60 km/h, then from City B to City C at 90 km/h, and finally returns directly from City C to City A at 72 km/h. If the distances between A and B and between B and C are equal, with B located between A and C, find his average speed for the entire journey.
(a) 66 km/hr
(b) 68 km/hr
(c) 70 km/hr
(d) 72 km/hr
Ans.(d)

Q41. Find the value $\frac{\cos^6\theta+\sin^6\theta+3\sin^2\theta\cos^2\theta}{\text{cosec}\,\theta\,\sec\theta((\sin\theta+\cos\theta)^2-1)}$.

(a) 1/3
(b) 1/4
(c) – 1/2
(d) 1/2
Ans.(d)

Q42. Chetan starts from Point A and drives 25 km towards south. He then takes a left turn, drives 22 km, turns left and drives 10 km. He then takes a left turn and drives 10 km. He takes a final right turn, drives 15 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-degree turns only, unless specified.)
(a) 10 km towards east
(b) 12 km towards west
(c) 25 km towards south
(d) 22 km towards north
Ans.(b)

Q43. Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(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.)
(19, 24, 7)
(12, 14, 5)
(a) (7, 5, 3)
(b) (12, 5, 3)
(c) (3, 4, 1)
(d) (12, 5, 4)
Ans.(c)

Q44. In an election between two candidates, the candidate who got 59% of valid votes won by a majority of 450 votes. Find the total valid votes.
(a) 2540
(b) 2500
(c) 2456
(d) 2350
Ans.(b)

Q45. KG 1 is related to MH 4 in a certain way. In the same way, OQ 9 is related to QR 12. To which of the given options is SM 5 related, following the same logic?
(a) NQ 12
(b) OP 14
(c) NP 14
(d) UN 8
Ans.(d)

Q46. Select the set in which the numbers are related in the same way as are the numbers of the following 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 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.)
(37, 1361, 8)
(47, 2185, 24)
(a) (50, 2475, 24)
(b) (12, 141, 3)
(c) (29, 829, 11)
(d) (4, 10, 5)
Ans.(b)

Q47. This question is based on the five, three-digit numbers given below.
(Left) 187 167 173 257 199 (Right)
(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)
(NOTE: All operations to be done from left to right.)
What will be the resultant if the second digit of the second highest number is added to the third digit of the second lowest number?
(a) 11
(b) 8
(c) 14
(d) 12
Ans.(d)

Q48. In the following decomposition reaction, identify the p q r s:
$pFeSO_4(s) \rightarrow qFe_2O_3(s) + rSO_2(g) + sSO_3(g)$
(a)
(b) 3,1,1,1
(c) 1,1,1,1
(d) 2,1,1,1
Ans.(d)

Q49. Find the difference between the compound interests on ₹2,000 for 1 year at 8% p.a. compounded annually and half-yearly
(a) ₹2.20
(b) ₹3.00
(c) ₹3.20
(d) ₹2.00
Ans.(c)

Q50. Pipe A can fill a tank in 6 hours, pipe B can fill the same tank in 48 hours and pipe C can fill the same tank in 16 hours. The time taken (in hours) by them to fill one-fourth of the same tank if they operate together is:
(a) 2
(b) 3
(c) 1
(d) 4
Ans.(c)

Q51. Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?
NON 40 LML 30 JKJ 20 HIH 10 ?
(a) FNW 7
(b) FHE 0
(c) FFE 5
(d) FGF 0
Ans.(d)

Q52. Consider the following statements:
1. The Vizhinjam Port (Thiruvananthapuram) is located on the Arabian Sea coast in Kerala.
2. Vizhinjam is India's first dedicated deep-water container trans-shipment port.
Which of the above statements is/are correct?
(a) Only 1
(b) Only 2
(c) Both 1 and 2
(d) Neither 1 nor 2
Ans.(c)

Q53. In each of the words, each vowel is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. In how many letter-clusters thus formed, will no vowel appear?
This question is based on the given words.
RED BUS HOP FIT
(a) Four
(b) Two
(c) None

(d) One
Ans.(d)

Q54. Which of the following is not a part of the female reproductive system?
(a) A pair of ovaries
(b) Sperm duct
(c) Uterus
(d) Oviducts
Ans.(b)

Q55. Seven people – H, I, J, K, L, M, and N – attend workshops on different days of the week starting from Monday and ending on Sunday. K's workshop is on Wednesday. Only one person attends between K and M. J attends workshop immediately after M. H attends on one of the days before I but after N. L attends the workshop before J but not on Monday. On which day does H attend the workshop?
(a) Wednesday
(b) Friday
(c) Sunday
(d) Thursday
Ans.(d)

Q56. 68 is related to 34 following a certain logic. Following the same logic, 84 is related to 42. To which of the given options is 56 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 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.)
(a) 36
(b) 24
(c) 28
(d) 32
Ans.(c)

Q57. A solid sphere of diameter 24 cm is melted and recast into small solid cones each of base radius 4 cm and height 9 cm. How many cones will be obtained?
(a) 48
(b) 45
(c) 56
(d) 32
Ans.(a)

Q58. A student's marks were incorrectly entered as 84 instead of 100. Due to this, the average marks of the class got decreased by 8/7. What is the number of students in the class?
(a) 10
(b) 9
(c) 14
(d) 18
Ans.(c)

Q59. Read the given statement(s) 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 statement(s).
Statements:
All vines are stars.
No star is a rug.
Conclusions:
I: No rug is a vine.
II: Some rugs are vines.
(a) Only conclusion (II) follows
(b) Both conclusions (I) and (II) follow
(c) Neither conclusion (I) nor (II) follows
(d) Only conclusion (I) follows
Ans.(d)

Q60. The marked price of a mobile was Rs.4,800. The shop owner offered 10% trade discount on the marked price but on further request by the customer, he sold it at Rs.4,200 after giving a cash discount. How much is this cash discount in percentage (rounded off to 2 decimal places)?
(a) 2.52%
(b) 2.36%
(c) 2.78%
(d) 2.21%
Ans.(c)

Q61. A shopkeeper bought 5 watches for ₹6000. He sold each at ₹1100. Find the overall profit or loss percentage.
(a) 8% loss
(b) 8.33% loss
(c) 7.5% loss
(d) 6.67% loss
Ans.(b)

Q62. If for any numbers a and b, a # b is defined as 5(a + b) + 2(a - b) - 3 then what is the value of 9 # 5?
(a) 75
(b) 69
(c) 66
(d) 71
Ans.(a)

Q63. In a certain code language, 'SEMI' is coded as '3615' and 'TIME' is coded as '1523'. What is the code for 'T' in the given code language?
(a) 3
(b) 1
(c) 5
(d) 2
Ans.(d)

Q64. What should come in place of '?' in the given series?
56 55 51 42 26 ?
(a) 2
(b) 3
(c) 1
(d) 4
Ans.(c)

Q65. In a certain code language, 'TIME' is coded as '3519' and 'EARS' is coded as '6894'. What is the code for 'E' in that language?
(a) 4
(b) 6
(c) 8
(d) 9
Ans.(d)

Q66. 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 is the one that 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.)
(a) IGD
(b) QPL
(c) GEB
(d) OMJ
Ans.(b)

Q67. SP 12 is related to WT 16 in a certain way. In the same way, MJ 15 is related to QN 19. To which of the following is EB 24 related, following the same logic?
(a) JF 28
(b) JG 29
(c) IG 29
(d) IF 28
Ans.(d)

Q68. In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.
19, 78
24, 98
(NOTE: Operations should be performed on the whole numbers, without breaking down the number into its constituent digits.)
(a) 26, 112
(b) 26, 110
(c) 27, 112
(d) 27, 110
Ans.(d)

Q69. Find the length of the chord which is at a distance of 4 cm from the centre of a circle whose radius is 5 cm.
(a) 10 cm
(b) 8 cm
(c) 6 cm
(d) 3 cm
Ans.(c)

Q70. Which property distinguishes a homogeneous mixture from a heterogeneous mixture?
(a) Fixed boiling point
(b) Chemical reaction
(c) Uniform composition
(d) High density
Ans.(c)

Q71. Among five people named V, W, X, Y and Z, each have a certain age. X is twice the age of V. V is three times the age of Y. Y is one-fifth the age of W. The age of W is 15. If Z's age is equal the age of X, what is the age of Z?
(a) 18
(b) 20
(c) 16
(d) 22
Ans.(a)

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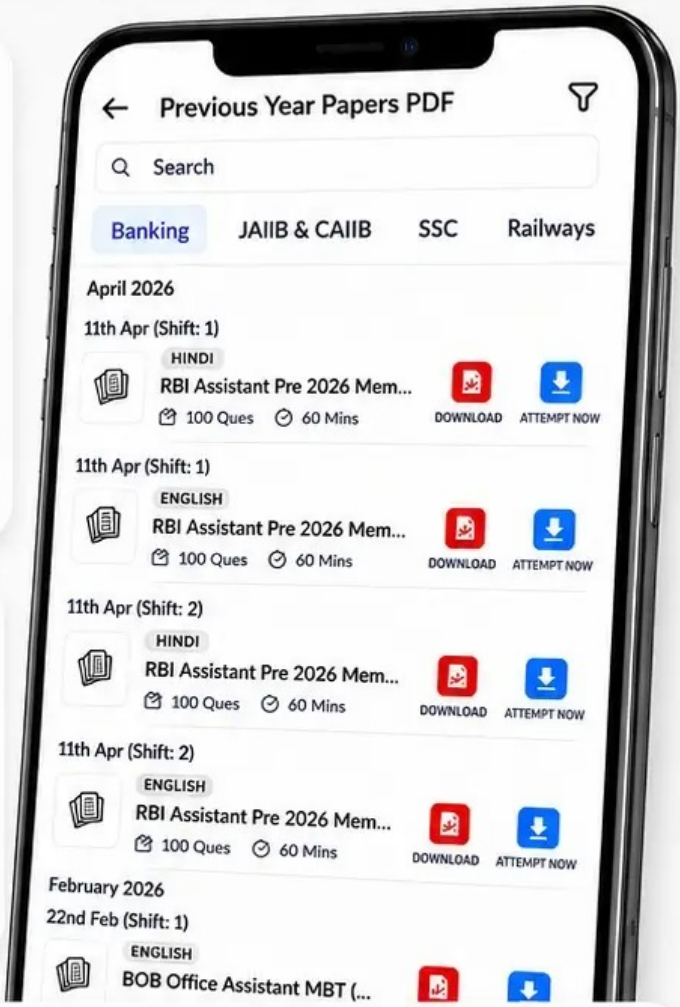

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Ved, SSC JE (Mech)

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Q72. Refer to the given letter series and answer the question that follows. Counting to be done from left to right only.
(Left) Y U A J K Y M Y Y P K Z M U V G I A O (Right)
How many such consonants are there each of which is immediately preceded by a consonant and also immediately followed by a vowel?
(a) One
(b) Three
(c) Two
(d) Four
Ans.(c)

Q73. Refer to the following number and symbol series and answer the question. Counting to be done from left to right only. (All numbers are single-digit numbers only.)
(Left) 62 @ # & * % ~ 7 = Ω 18 ? £ $ (Right)
How many such symbols are there, each of which is immediately preceded by a number and also immediately followed by another number?
(a) One
(b) Three
(c) None
(d) Two
Ans.(c)

Q74. From a point within an equilateral triangle, perpendicular lines are drawn to its sides. The lengths of these perpendiculars are 5 m, 6 m, and 7 m. Find the area of the triangle.
(a) $105\sqrt{3}$ sq.m
(b) 98 sq.m
(c) $108\sqrt{3}$ sq.m
(d) 75 sq.m
Ans.(c)

Q75. Which of the numbers below is exactly divisible by 33?
(a) 25080
(b) 27441
(c) 19679
(d) 73205
Ans.(a)