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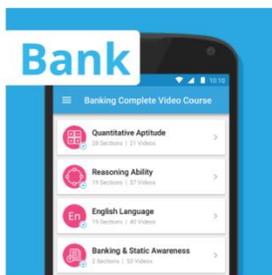
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Directions (1-5): Study the following information carefully and answer the question given below:
Seven Persons P, Q, R, S, T, U and V live on seven different floors of a building, but not necessarily in the same order. The lowermost floor of the building is numbered one; the one above it is number two and so on till the topmost floor is number seven. Each of them also likes a different subject and colour i.e. subjects are- Maths, Physics, Chemistry, Biology, Economics, Hindi, Sanskrit and colour are- Red, Pink, Blue, White, Yellow, Orange and Violet but not necessarily in the same order.

Only one person lives between the one who likes Economics and the one who likes Hindi. S does not like Economics. V does not like Maths. The one who likes Orange live immediate above the one who likes Economics. T lives on one of the floors below Q, but does not live on the lowermost floor. The one who lives on 7th floor is immediate above the one, who lives immediate below the one who likes Violet. There are three persons between Q and T. The one who likes Biology lives on one the odd-numbered floors below U. P lives immediately above U and does not like Chemistry. U does not like White and Pink. The one who likes Blue live immediate above the one who likes Yellow. The one who likes Hindi is also likes Pink. Only one person lives between Q and the one who likes Chemistry. The one who likes Yellow lives below the one who likes Red. Only two persons live between V and the one who likes Chemistry. The one who likes Physics live on one of the even-numbered floors above the one who likes Chemistry. The one who likes Sanskrit lives immediately above V, who does not like Hindi. S lives on one of the floors above R. V neither live on first nor top-most floor.

Q1. Who among following likes White colour?

- (a) R
- (b) The one who likes Physics
- (c) The one who likes Chemistry
- (d) The one who likes Maths
- (e) Q

Q2. Who lives on immediate above the one who likes Pink colour?

- (a) The one who likes Chemistry
- (b) Both (a) and (e)
- (c) S
- (d) Q
- (e) The one who likes Red

Q3. Who among following like Sanskrit subject?

- (a) Q
- (b) P
- (c) V
- (d) T
- (e) None of these

Q4. How many persons live between the one who likes Biology and the one who likes Pink?

- (a) None
- (b) Three
- (c) Two
- (d) Can't be determined
- (e) None of these

Q5. Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?

- (a) The one who likes Biology
- (b) The one who likes Orange
- (c) The one who lives on 5th floor
- (d) The one who lives on 6th floor
- (e) The one who likes Maths

Directions (6-10) In the following questions, the symbols @, \$, %, # and © are used with the following meanings illustrated –

- (i) 'X @ Y' means 'X is not smaller than Y'.
- (ii) 'X \$ Y' means 'X is not greater than Y'.
- (iii) 'X % Y' means 'X is neither smaller than nor equal to Y'.
- (iv) 'X # Y' means 'X is neither greater than nor equal to Y'.
- (v) 'X © Y' means 'X is neither smaller than nor greater than Y'.

In each of the following questions assuming the given statements to be true, find out which of the two conclusions I and II given below them is/are definitely true. Give answer –

- (a) If only I is true.
- (b) If only II is true.
- (c) If either I or II is true
- (d) If neither I nor II is true.
- (e) If both I and II are true.

Q6. Statements: P \$ T, T @ L, U % L
Conclusions: I. P @ L II. U © L

Q7. Statements: A @B, B%D, D©K
Conclusions: I. A©K II. B%K

Q8. Statements: J # K, K©L, P\$L
Conclusions: I. P\$K II. J#L

Q9. Statements: T % O, T # M, M@ V
Conclusions: I. M % T II. O % V

Q10. Statements: K @ T, T # C, C \$ P
Conclusions: I. C © K II. C % K

Directions (11-15): Study the information and answer the following questions:

In a certain code language

“person will store such” is coded as “VH@ UE# JL@ FN@”

“over the demand for” is coded as “PR# FD@ IE# WR@”

“current bout of trouble” is coded as “GF@ VT# PT@ SE#”

Q11. What is the code for 'champion'?

- (a) JN@
- (b) IN@
- (c) IN#
- (d) IK@
- (e) None of these

Q12. What is the code for 'perhaps'?

- (a) FS@
- (b) FS#
- (c) FL#
- (d) PS#
- (e) None of these

Q13. What is the code for 'nothing'?

- (a) QG#
- (b) PG@
- (c) MG#
- (d) PG#
- (e) None of these

Q14. What is the code for 'neither'?

- (a) QR#
- (b) FR@
- (c) KR#
- (d) FR#
- (e) None of these

Q15. What is the code for 'things'?

- (a) IO@
- (b) IS#
- (c) IK@
- (d) IS@
- (e) None of these

Directions (16-20): Study the following information carefully and answer the given questions.

There are eight family members, viz A, B, C, D, E, F, G and H are sitting around a circular table, facing the center but not necessarily in the same order. The following information is known about them.

- (a) F, the wife of D, is sitting third to the right of C.
- (b) A is the son of H. A is sitting second to the left of D. D is an immediate neighbour of neither F nor C. No male is an immediate neighbour of D.
- (c) G sits second to the left of D's son. Only two persons sit between H and A's brother. Neither C nor D is the brother of A.
- (d) D's son and the wife of D's son are immediate neighbours of each other.
- (e) F is the mother of H and is an immediate neighbour of neither B nor G.
- (f) G is the sister of E.

Q16. Who is sister in law of H?

- (a) C
- (b) G
- (c) F
- (d) E
- (e) Cannot be determined

Q17. Who among following sits third to left of C?

- (a) D
- (b) H
- (c) A
- (d) F
- (e) None of these

Q18. Who among following sits exactly between F and B?

- (a) E
- (b) D
- (c) G
- (d) C
- (e) None of these

Q19. Who among following is wife of B?

- (a) C
- (b) F
- (c) G
- (d) H
- (e) None of these

Q20. Who among following sits third to right of daughter of F?

- (a) E
- (b) B
- (c) H
- (d) C
- (e) D

Q21. Sneha starts at point T, walks 4km north to reach point U. She turns left at 90° and walks to W which is 4km away and then turns 90° right and goes 3km to P and then turns 90° right and walks 1km to Q and then turns left at 90° and goes to V, which is 1km away and once again turns 90° right and goes to R which is 3km away. What is the distance between T and R?

- (a) 4km
- (b) 5km
- (c) 7km
- (d) 8km
- (e) None of these



Q22. Romil drove 15 km North by his car. He then turned towards West and drove for 10 km. He then drove towards South for 5 km and then turned towards East and drove for the next 8 km. Finally, he turned to the right and drove for the next 10 km. How far and in which direction is Romil from his starting point?

- (a) Can't determine
- (b) 6 km South
- (c) 5 km West
- (d) None of these
- (e) 2 km West

Directions (23-24): Study the following information and answer the questions given below.

- (i) 'P ÷ Q' means 'P is sister of Q'.
- (ii) 'P × Q' means 'P is brother of Q'.
- (iii) 'P - Q' means 'P is mother of Q'.
- (iv) 'P + Q' means 'P is father of Q'.

Q23. Which of the following means 'A is maternal uncle of C'?

- (a) $A \div B + C$
- (b) $A \times B + C$
- (c) $A \times B - C$
- (d) $A \div B - C$
- (e) None of these

Q24. Which of the following means 'A is grandmother of B'?

- (a) $A + C + B$
- (b) $B \times C + A$
- (c) $A + C \times B$
- (d) $A - C + B$
- (e) None of these

Q25. In a row of twenty students, R is fifth from the right end and T is fourth from the left end. How many students are there between R and T in the row?

- (a) 11
- (b) 12
- (c) 10
- (d) Cannot be determined
- (e) None of the above

Directions (26-30): Study the following information carefully to answer the given questions.

Nine employees i.e. A, B, C, D, E, F, G, H and I of a company are living in a same building of an apartment which have 9 floors. Lower most floor is 1st floor, after that 2nd floor, and so on. One day, they all watched "Harry Potter" Film. Each employee likes different character of this film. These different characters are Potter, Malfoy, Voldemort, Dumbledore, Snape, Sirius Black, Hagrid, Weasley and Hermione.

The one who likes Hagrid does not live below from D. The one who lives on odd floor likes Potter but lives above from 4th floor. G lives on 4th floor. F does not like Hagrid, and Dumbledore. The one who likes Dumbledore lives on that floor, that is just above the floor on which H lives. There are 3 persons live between the one who likes potter and H. The one who likes Sirius Black lives on 3rd floor and H does not like Sirius Black. A lives immediate below the floor on which the one who likes Hermione. B lives one of the above from the floor on which E lives but E does not like Dumbledore. The one who likes Hagrid lives on either Top floor or Bottom most floor. The one who likes Hermione is not F. The one who likes Weasley lives just above from the one who likes Malfoy. D lives just immediate below from G. There are two floor between the one who likes Hagrid and the one who likes Hermione. The one who likes Snape lives below from D. There is five floor between C and H.

Q26. Who among the following likes Voldemort?

- (a) D
- (b) E
- (c) G
- (d) B
- (e) H

Q27. How many floors between G and I?

- (a) One
- (b) Three
- (c) Five
- (d) Four
- (e) No one

Q28. Who among the following likes Malfoy?

- (a) B
- (b) C
- (c) D
- (d) I
- (e) G

Q29. F lives on which floor?

- (a) 7th
- (b) 6th
- (c) 5th
- (d) 9th
- (e) 8th



Q30. E likes which character of Harry potter?

- (a) Hermione
- (b) Dumbledore
- (c) Voldemort
- (d) Snape
- (e) Weasley

Directions (31-35): Study the following information carefully and answer the given questions.

When a word and number arrangement machine is given an input line of words and numbers, it arranges them following a particular rule. The following is an illustration of Input and rearrangement.

Input : 77 Poet 88 enable 47 Air Dear 62 27 Baloon

Step 1: Air 77 poet 88 enable 47 dear 62 27 baloon

Step 2: Air 88 77 poet enable 47 dear 62 27 baloon

Step 3: Air 88 enable 77 poet 47 dear 62 27 baloon

Step 4: Air 88 enable 77 baloon poet 47 dear 62 27

Step 5: Air 88 enable 77 baloon 62 poet 47 dear 27

Step 6: Air 88 enable 77 baloon 62 dear poet 47 27

Step 7: Air 88 enable 77 baloon 62 dear 47 poet 27

And step 7 is the last step of the above input. As per the rules followed in the above step, find out the appropriate step for the given output.

INPUT: 71 nose 83 umbrella 37 Queen Floor 59 17 owl

Q31. What comes 4th from right end in Step 3?

- (a) Owl
- (b) Queen
- (c) 71
- (d) 37
- (e) nose

Q32. What is the penultimate step of the given input?

- (a) Step 3
- (b) Step 5
- (c) Step 8
- (d) Step 4
- (e) Step 7

Q33. Which step is “owl 83 umbrella 71 floor nose 37 Queen 59 17”?

- (a) Step 4
- (b) Step 6
- (c) Step 2
- (d) Step 5
- (e) None step

Q34. Which element is exactly between 5th from left end and 4th from right end in Step 2?

- (a) 59
- (b) 83
- (c) Queen
- (d) 37
- (e) None of these

Q35. Which element is 4th from left end in last step?

- (a) Owl
- (b) 71
- (c) 83
- (d) 37
- (e) None of these

Directions (36-39): Each of the following questions consists of six statements followed by options consisting of three statements put together in a specific order. Choose the option that indicates a combination where the third statement can be logically deduced from the first two statements and that option will be your answer.

Q36.

- i. Some M are N.
- ii. All M are O.
- iii. No P are O.
- iv. No N is O.
- v. All P are N.
- vi. Some P are M

- (a) [i, vi, v]
- (b) [iii, iv, v]
- (c) [ii, vi, iv]
- (d) [iv, v, iii]
- (e) None is correct

Q37.

- i. Some P are Q.
 - ii. All R are S.
 - iii. A few P are R.
 - iv. All S are Q.
 - v. All R are Q.
 - vi. Some P are Q.
- (a) [iii, v, vi]
(b) [i, iii, v]
(c) [ii, v, iv]
(d) [iv, v, ii]
(e) None is correct

Q38.

- i. All A are B.
 - ii. All C is D.
 - iii. Some C are A.
 - iv. No E is C
 - v. Some E is D.
 - vi. Some B is C.
- (a)[iv, ii, i]
(b)[iii, vi, i]
(c)[iii, i, vi]
(d)[iv, ii, v]
(e)None is correct



Q39.

- i. All Pak are India
 - ii. Some Bangla are India.
 - iii. Some India are Pak.
 - iv. No India is Aus.
 - v. Some Bangla are not Aus.
 - vi. All Pak are Bangla
- (a) [vi, ii, iii]
(b) [iv, v, iii]
(c) [ii, v, iv]
(d) [ii, iv, v]
(e) None is correct

Directions (40): In the question below has two conclusions followed by five set of statements. You have to choose the correct set of statements that logically satisfies given conclusions. Given statements to be true even if they seem to be at variance from commonly known facts.

Q40. Conclusion:

Some D are E is a possibility.

Some F are not G

Statements:

Statements - 1: All E are H. All H are F. No H is G. No D is F.

Statements - 2: Some E are H. All H are F. Some H are G. No D is F.

Statements - 3: All E are H. All H are F. No H is G. All D are F

Statements - 4: All E are H. All H are F. No D is a I. Some D are G

Statements - 5: Some E are H. All H are F. No H is G. Some D are G.

- (a) Only Statements - 1 and 2
- (b) Only Statements - 2 and 3
- (c) Only Statements - 3 and 5
- (d) Only Statements - 4 and 5
- (e) Only Statements - 5

Directions (41-45): In the following number series only one number is wrong. Find out the wrong number.

Q41. 336, 210, 120, 62, 24, 6, 0

- (a) 120
- (b) 62
- (c) 24
- (d) 6
- (e) None of these

Q42. 5, 3, 6, 10, 9, 12, 17, 15, 18, 23

- (a) 10
- (b) 9
- (c) 12
- (d) 17
- (e) None of these

Q43. 0, 3, 8, 15, 27, 35, 48

- (a) 0
- (b) 3
- (c) 8
- (d) 15
- (e) None of these



Q44. 8, 14, 26, 48, 98, 194

- (a) 14
- (b) 26
- (c) 48
- (d) 95
- (e) None of these

Q45. 12, 32, 72, 152, 314, 632

- (a) 32
- (b) 72
- (c) 152
- (d) 314
- (e) None of these

Q46. A railway half ticket costs half the full fare. But the reservation charge on half ticket is the same as that on full ticket. One reserved first class ticket for a journey between two stations is Rs. 525 and the cost of one full and one half reserved first class tickets is Rs. 850. What is the reservation charge?

- (a) Rs. 125
- (b) Rs. 200
- (c) Rs. 145
- (d) Can't be determined
- (e) None of these

Q47. Manish borrowed a sum of Rs. 1150 from Anil at the simple rate of 6% per annum for 3 yr. Then, he added some more money to the borrowed sum and lent it to Sunil for the same time at 9% per annum at simple interest. If Manish gains Rs. 274.95 by way of interest on borrowed sum as well as his own amount from the whole transactions, then what is the sum lent by him to Sunil?

- (a) Rs. 1290
- (b) Rs. 1785
- (c) Rs. 1285
- (d) Rs. 1200
- (e) None of these

Q48. While packing for a business trip Mr. Debashis has packed 3 pairs of shoes, 4 pants, 3 half-pants, 6 shirts, 3 sweater and 2 jackets. The outfit is defined as consisting of a pair of shoes, a choice of 'lower wear' (either a pant or a half-pant), a choice of 'upper wear' (it could be a shirt or a sweater or both) and finally he may or may not choose to wear a jacket. How many different outfits are possible?

- (a) 567
- (b) 1821
- (c) 743
- (d) 894
- (e) None of these

Q49. The sum of five consecutive even numbers of set A is 280. What is the sum of different set B of five consecutive numbers whose lowest number is 71 less than double the lowest number of set A?

- (a) 182
- (b) 165
- (c) 172
- (d) 175
- (e) None of the above

Q50. The number obtained by interchanging the two digits of a two digit number is lesser than the original number by 54. If the sum of the two digits of the number is 12, then what is the original number?

- (a) 28
- (b) 39
- (c) 82
- (d) Can't be determined
- (e) None of the above

Directions (Q.51-55): What will come in place of the question-mark (?) in the following questions?

Q51. $2\frac{1}{6} + \left(3\frac{3}{4} - 1\frac{1}{4}\right) = ?$

- (a) $4\frac{5}{12}$
- (b) $4\frac{3}{12}$
- (c) $4\frac{7}{12}$
- (d) $5\frac{3}{12}$
- (e) None of these

Q52. ? % of 398 + 31% of 993 = 403.35

- (a) 46
- (b) 24
- (c) 18
- (d) 32
- (e) None of these

Q53. $(3.7)^{-3} \times (13.69)^{-2} \times \frac{1}{50.653} \div (13.69)^{-5} = (3.7)^?$

- (a) 0
- (b) 1
- (c) 2
- (d) 3
- (e) None of these



Q54. 17.8% of ? = 427.2 × 8.4% of 135

- (a) 21784
- (b) 24378
- (c) 27216
- (d) 28120
- (e) 25315

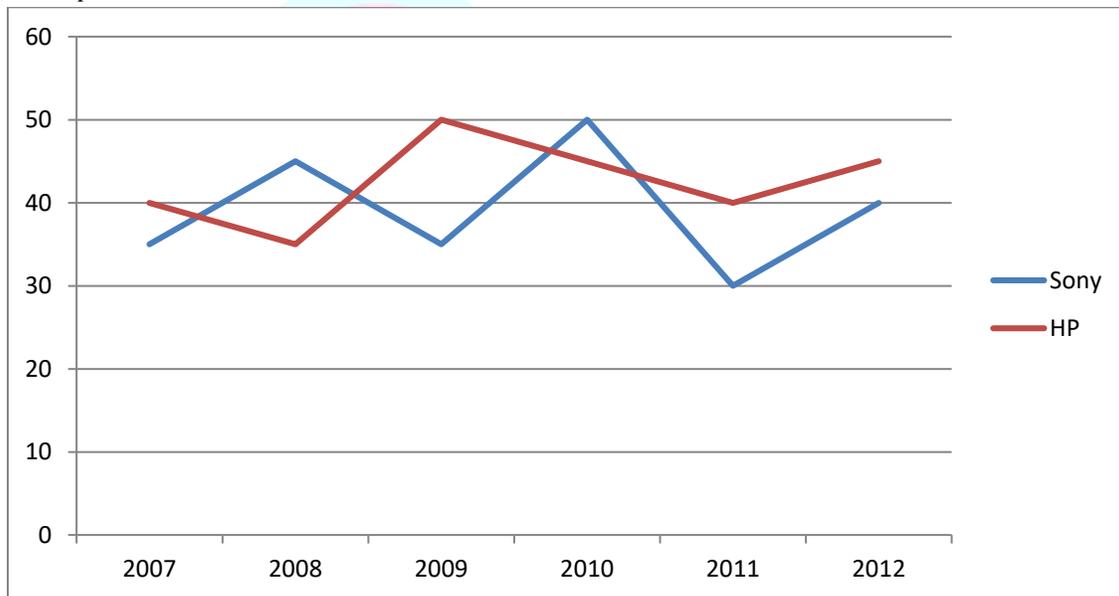
Q55. $(\sqrt{5} - \sqrt{10})^2 + (\sqrt{2} + 5)^2 = (?)^3 - 22$

- (a) $\sqrt{2}$
- (b) 2
- (c) 16
- (d) 8
- (e) None of these

Directions (56-60): Study the following graph carefully and answer the questions given below it.

Percentage of profit earned by two companies Sony and H.P. over the given years

$$\% \text{ Profit} = \frac{\text{Income} - \text{Expenditure}}{\text{Expenditure}} \times 100$$



Q56. Expenditure of Company HP in 2008 and 2009 are Rs. 12 lakhs and Rs. 14.5 lakh respectively. What was the total income of Company B in 2008 and 2009 together (in lakh rupees)?

- (a) 35 lac
- (b) 37.65 lac
- (c) 40 lac
- (d) 37.95 lac
- (e) None of these

Q57. Ratio of expenditure of companies Sony and HP in 2011 was 3 : 4 respectively. What was the respective ratio of their incomes in 2011?

- (a) 2 : 3
- (b) 23 : 37
- (c) 43 : 56
- (d) 29 : 46
- (e) 39 : 56

Q58. Total expenditure of Company Sony in all the years together was 82.5 lakhs. What was the total income of the Company in all the years together?

- (a) 38 lac
- (b) 40 lac
- (c) 45 lac
- (d) Cannot determined
- (e) None of these

Q59. If the expenditures of Companies Sony and HP in 2012 were equal and the total income of the two companies was Rs. 5.7 lakh, What was the total expenditure of the two companies in 2012?

- (a) 4 lac
- (b) 5 lac
- (c) 6 lac
- (d) 8 lac
- (e) 10 lac



Q60. If the income of Company HP in 2009 and 2010 were in the ratio of 2 : 3 respectively. What was the respective ratio of expenditure of that Company in these two years?

- (a) 2 : 3
- (b) 4 : 5
- (c) 29 : 45
- (d) 39 : 55
- (e) None of these

Q61. In Arun's opinion, his weight is greater than 65 kg but less than 72 kg. His brother does not agree with Arun and he thinks that Arun's weight is greater than 60 kg but less than 70 kg. His mother's view is that his weight cannot be greater than 68 kg. If all of them are correct in their estimation, what is the average of different probable weights of Arun?

- (a) 67 kg
- (b) 69 kg
- (c) 71 kg
- (d) 74 kg
- (e) None of these

Q62. A, B and C start at the same time in the same direction to run around a circular stadium. A completes a round in 252 seconds, B in 308 seconds and C in 198 seconds, all starting at the same point. After what time will they reach the starting point again?

- (a) 42 min 36 sec
- (b) 26 min 18 sec
- (c) 45 min
- (d) 46 min 12 sec
- (e) None of these

Q63. In a box carrying one dozen of oranges, one-third have become bad. If 3 oranges are taken out from the box at random, what is the probability that at least one orange out of the three oranges picked up is good?

- (a) $\frac{52}{55}$
- (b) $\frac{54}{55}$
- (c) $\frac{44}{45}$
- (d) $\frac{54}{65}$
- (e) None of these

Q64. A can complete a piece of work in 4 days. B takes double the time taken by A, while C takes double the time to that of B, and D takes double than that of C to complete the same task. They are paired in groups of two each. One pair takes two-thirds the time needed by the second pair to complete the work. Which will be the first pair?

- (a) B and C
- (b) A and B
- (c) C and D
- (d) A and D
- (e) None of these

Q65. Two buses start at the same time from two bus stations and proceed towards each other at the rate of 20kmph and 25 kmph respectively. When they meet, one bus may have travelled 80 kms more than the other. Find the distance (in km) between the two bus stations.

- (a) 700
- (b) 650
- (c) 720
- (d) 750
- (e) None of these

Directions (66–70): What approximate value should replace the question mark (?) in the following equations?

Q66. $\sqrt{625.04} \times 16.96 + 136.009 \div 17 = ?$

- (a) 418
- (b) 441
- (c) 425
- (d) 433
- (e) None of these

Q67. $(115\frac{1}{24} + 234.92) \times 5\frac{3}{37} = ?$

- (a) 1400
- (b) 1750
- (c) 1200
- (d) 1340
- (e) 1600

Q68. ? % of 6147 = $2\frac{1}{2} \times 245.76$

- (a) 10
- (b) 20
- (c) 30
- (d) 40
- (e) 50

Q69. $5.6 \times 2569 + 2058 = 157\% \times 6529 + ?$

- (a) 6400
- (b) 5800
- (c) 6200
- (d) 6050
- (e) 6350

Q70. $7\frac{3}{5}\%$ of 208.787 + $24\frac{39}{50}\%$ of 423.547 = ?

- (a) 95
- (b) 100
- (c) 140
- (d) 120
- (e) 180



Directions (71-75): In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answer.

- (a) if $x < y$
- (b) if $x \leq y$
- (c) if $x = y$ or no relation can be established
- (d) if $x > y$
- (e) if $x \geq y$

71. I. $7x + 3y = 77$

II. $2x + 5y = \sqrt{2601}$

72. I. $3x^2 - (6 + \sqrt{17})x + 2\sqrt{17} = 0$

II. $10y^2 - (18 + 5\sqrt{17})y + 9\sqrt{17} = 0$

73. I. $(289)^{\frac{1}{2}}x - \sqrt{324} = 203$

II. $(484)^{\frac{1}{2}}y + \sqrt{225} = 183$

74. I. $679x^2 - 168x^2 = 3066$

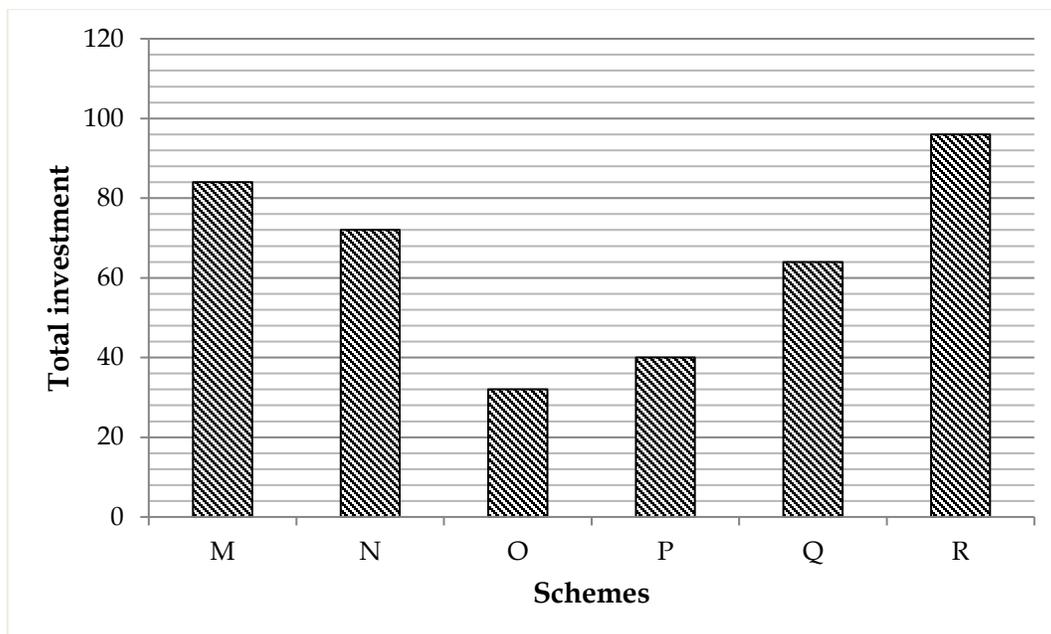
II. $\sqrt{144}y^3 - 9y^3 = 1536$

75. I. $14x - 25 = 59 - 7x$

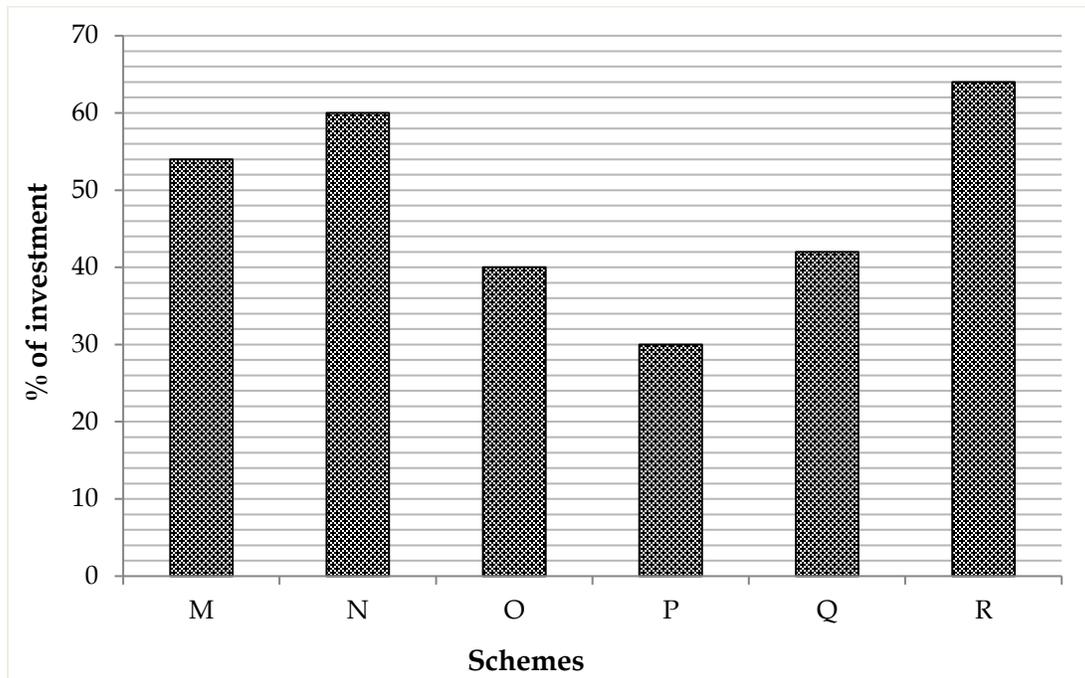
II. $\sqrt{y + 222} - \sqrt{36} = \sqrt{81}$

Direction (76-80): Study the graph to answer the questions.

Total investment (in Rs. thousand) of Gaurav and Rishabh in 6 schemes (M, N, O, P, Q and R) investment



Percentage of Gaurav's Investment out of total investment



Q76. Scheme M offers simple interest at a certain rate of interest (per cent per annum). If the difference between the interest earned by Gaurav and Rishabh from scheme M after 4 yr is Rs. 4435.20, what is the rate of interest (per cent per annum)?

- (a) 17.5
- (b) 18
- (c) 16.5
- (d) 20
- (e) 15

Q77. What is the respective ratio between total amount invested by Gaurav in schemes O and Q together and total amount invested by Rishabh in the same scheme together?

- (a) 31 : 44
- (b) 31 : 42
- (c) 27 : 44
- (d) 35 : 48
- (e) 29 : 38

Q78. If scheme O offers compound interest (compounded annually) at 12% per annum, then what is the difference between interest earned by Gaurav and Rishabh from scheme O after 2 yr?

- (a) Rs. 1628.16
- (b) Rs. 1584.38
- (c) Rs. 1672.74
- (d) Rs. 1536.58
- (e) Rs. 1722.96

Q79. Rishabh invested in scheme R for 4 yr. If scheme R offers simple interest at 7% per annum for the first two years and then compound interest at 10% per annum (compound annually) for the 3rd and 4th year, then what will be the interest earned by Rishabh after 4 yr?

- (a) Rs. 13548.64
- (b) Rs. 13112.064
- (c) Rs. 12242.5
- (d) Rs. 12364
- (e) Rs. 11886

Q80. Amount invested by Gaurav in scheme S is equal to the amount invested by him in scheme N. The rate of interest per annum of schemes S and N are same. The only difference is scheme S offers compound interest (compounded annually), whereas the scheme N offers simple interest. If the difference between the interest earned by Gaurav from both the schemes after 2 yr is Rs. 349.92, then what is the rate of interest?

- (a) 9%
- (b) 5%
- (c) 13%
- (d) 11%
- (e) 7%

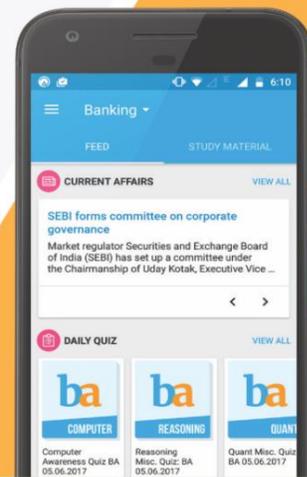




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