

REASONING APTITUDE

Directions (1-5): Study the following information carefully and answer the questions given below:

There are eight members A, B, C, D, E, F, G, H, all are seated in row and facing to north (but not necessarily in the same order). They like different numbers i.e. 60, 55, 121, 36, 18, 30, 37, and 17 (but not necessarily in the same order).

The one, who likes a prime number, sits third from left end of the row and F is the immediate neighbour of the person who sits third from the left end. A and C are immediate neighbors of each other. H, sits 2nd to the left of B. The one, who sits 2nd to the right of the one, who likes 36 number, likes the palindrome number which is divisible by 11. The one who likes 60 sits 5th left of the one, who likes 121. B sits at extreme end of the row. F likes a number which is a perfect square but not a palindrome number. The number which is liked by A is double of the number which is liked by C. B sits 4th to the right of F. G likes the number which is half of the number, which is liked by F. G sits left of both B and H. B likes a palindrome number which is divisible by both 11 and 5. D sits right of F and D does not like the prime number which is less than 35.

Q1. Which of the followings sits 2nd right to the person, who sits 3rd left of H?

- (a) G
- (b) D
- (c) The one who likes 18 number.
- (d) Both (a) and (c)
- (e) None of these

Q2. F likes which number?

- (a) Two times of the number which is liked by G
- (b) 121
- (c) 37
- (d) 55
- (e) None of these

Q3. Which of the following number is liked by D?

- (a) 55
- (b) 37
- (c) 121
- (d) 17
- (e) None of these

Q4. Which of the following is true regarding the seating arrangement?

- (a) H sits immediate right of D
- (b) F sits exactly between E and G
- (c) C sits at the extreme end of the line
- (d) None of these
- (e) All are true

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Q5. Which of the following is F's position with respect to H?

- (a) Immediate right
- (b) Immediate left
- (c) Second to the left
- (d) Second to the right
- (e) None of these

Q6. In which of the following expression shows that, 'A>J' and 'I≤Q' being definitely true?

- (a) $Q > A > B \geq I \geq E < J$
- (b) $C < Q \leq D < A > J > I$
- (c) $B > C < J < I \leq A = Q$
- (d) $A > I \leq K = Q < J > B$
- (e) None of these

Directions (7-8): In each group of questions below are three/four/five set of statements followed by two conclusions. You have to choose the correct set of statements that does logically satisfies given conclusions separately. Assume the given statements to be true even if they seem to be at variance from commonly known facts.

Q7. Statements:

- 1: No L is B. No B is a C. Some C are P.
- 2: All L are B. All B are C. No C is P.
- 3: All L are B. No B is a C. Some C are P.
- 4: All L are B. No B is a C. No C is P.
- 5: All L are B. All B are C. Some C are P.

Conclusions:

- 1: No L is a C
- 2: Some P is C.
- (a) Only Statements 1 and statement 2
- (b) Only Statement 2
- (c) Only Statement 3
- (d) Only Statement 4
- (e) Only Statement 5

Q8. Statements:

- 1: All Debug are copy. All copies are Bugs. No copy is Virus. No Virus is computer.
- 2: Some Debugs are copy. All copies are Bugs. Some copies are Virus. All Viruses are computer.
- 3: All Debugs are copy. All copies are Bugs. No copy is computer. All Viruses are Bugs
- 4: All Debugs are copy. All copies are Bugs. No Virus is copy. Some Viruses are Computers
- 5: Some Debugs are copy. All copies are Bugs. No copy is Computer. Some Viruses are Computers.

Conclusion:

- 1: Some Viruses are Debug is a possibility.
- 2: Some Bugs are not Computers
- (a) Only Statements 1 and statement 2
- (b) Only Statements 2 and statement 3
- (c) Only Statements 3 and statement 5
- (d) Only Statements 4 and statement 5
- (e) Only Statement 5

Directions (9-13): Study the following information carefully and answer the questions given below.

Seven persons of a family namely A, Q, R, C, I, M and N work in four different shops i.e. Cantabile, Pantaloons, Max and H&M, but not necessarily in the same order. Not more than two persons work in the same department. Also each one of them lives on a different floors, i.e., Fifth, Seventh, Eighth, Fourth, Second, First and Third but not necessarily in the same order.

M's husband works with M's father in the Cantabile shop and does not live on Fifth floor. M's daughter lives on First floor and does not work in H&M shop. The one, who lives on the Third floor, works in the H&M shop. C is brother-in-law of N and Q is brother of one of the married male person of the family. M's brother-in-law works with M's uncle in the same shop and lives on Second floor. Only A's wife works in the 'Pantaloons' shop. M's mother is in the same shop as A's daughter. None of the persons, who work in the Cantabile or 'Max' shop, lives on eight floor. I's maternal grandfather lives on Fourth floor.

Q9. Who among the following person lives on eight floor?

- (a) A's brother
- (b) M's husband
- (c) I's mother
- (d) R's wife
- (e) None of these

Q10. In Which of the following shops does R's son-in-law work?

- (a) Max
- (b) H&M
- (c) Pantaloons
- (d) Cantabile
- (e) None of these

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Q11. How is M related to C?

- (a) Niece
- (b) Uncle
- (c) Father
- (d) Nephew
- (e) None of these

Q12. How many persons work in Pantaloons shop?

- (a) Three
- (b) One
- (c) Zero
- (d) Two
- (e) None of these

Q13. I's uncle lives on which of the following floor?

- (a) Three
- (b) First
- (c) Eight
- (d) Fourth
- (e) None of these

Directions (14-18): Study the following information carefully and answers the questions given below.

@ means either hour hand or minute hand is at 1

* means either hour hand or minute hand is at 6

\$ means either hour hand or minute hand is at 3

? means either hour hand or minute hand is at 7

> means either hour hand or minute hand is at 8

< means either hour hand or minute hand is at 12

Note: if two symbols are given than by default first symbol is consider as minute hand and second one is consider as hour hand. And all time are consider at AM. If time is given in hrs take it as AM **eg- 5 hrs will be considered as 5 AM.**

For e.g. >\$ → 3:40 am.

Q14. A starts his journey from point X at '>\$'. He takes 1:15 hrs to reach from point X to point Y and 2:10 hrs to reach from point Y to point Z. Find exact time at which A reached from point X to point Z?

- (a) @? am
- (b) @? pm
- (c) ?@ am
- (d) ?@ pm
- (e) None of these

Q15. Ajay always takes 1:15 hrs to complete 2km distance. He starts his journey from point A in north direction and covers 6 km distance to reach at point B. After that he takes a right turn and covers 8km distance to reach at point C. Find the time in which Ajay will cover the shortest distance between A to C?

- (a) *\$
- (b) \$*
- (c) @\$
- (d) \$@
- (e) None of these

Q16. How much time a person will take to cover a distance of 14km at the speed of 2km/hr?

- (a) ?<
- (b) @<
- (c) <?
- (d) <@
- (e) None of these

Q17. Ravi leaves a station A at '\$?', he has to reach at station B in 1hr after leaving the station A. At what time Ravi will reach at station B?

- (a) \$@
- (b) @\$
- (c) >\$
- (d) None of these
- (e) \$>

Q18. A took 3 hrs to finish a work, he started the work at '\$>' and B takes 2 hrs more than A to finish a work. If both started a work at same time then at what time B will finish a work?

- (a) \$@
- (b) @\$
- (c) *\$
- (d) \$*
- (e) None of these

Directions (19-21): In the questions below are given some conclusions followed by five set of statements. You have to choose the correct set of statements that logically satisfies given conclusions definitely. Assume the given statements to be true even if they seem to be at variance from commonly known facts.

Q19. Conclusions: Some T is R. Some U is P.

Statements:

- (a) Some Q is P. All Q is R. No S is Q. All S is T. Some S is U.
- (b) Some R is P. All R is Q. No S is R. Some S is T. All T is U.
- (c) All S is Q. Some P is S. No S is R. Some R is T. All T is U.
- (d) All U is Q. All P is U. No U is R. Some R is S. All S is T.
- (e) None of these

Q20. Conclusions: All F are G. Some C is Q

Statements:

- (a) All F is R. Some G is Q. All R is G. All Q is C. No Q is S.
- (b) All F is R. Some G is C. No R is G. Some Q is G. All Q is S.
- (c) All F is E. Some G is Q. All E is G. All S is Q. No C is G.
- (d) Some S is F. All G is E. No F is C. All E is F. Some Q is C.
- (e) None of these

Q21. Conclusions: Some B is E. No E is F.

Statements:

- (a) All B is D. Some A is C. All C is D. No D is E. All B is F.
- (b) Some A is F. All F is C. No C is D. Some B is C. All E is B.
- (c) All F is C. Some A is E. All E is B. No D is B. Some D is F.
- (d) Some A is D. All D is F. No F is E. Some E is C. All C is B.
- (e) None of these

Directions (22-26): Study the following information carefully and answer the questions given below:

Seven persons namely P, Q, R, S, T, U and V are planning to go for vacation on the different months i.e. July, May, August, September, June, February and December, but not necessarily in the same order also each of them want to see different-different location of Manali i.e. Solang Valley, Hadimba Temple, Beas Kund, Old Manali, Vashisht Baths, Rohtang Pass and Adventure Activity, but not necessarily in the same order. All persons are arranged in an order from top to bottom.

There are two persons sit between the person who wants to see Vashisht Baths and the one who is immediate above the one, who is planning to go on December. The person, who is planning to go on December, is not immediate above the person, who is planning to go on May. Four persons sit between R and S. Neither V nor T is planning to go on December and May. The person who wants to see Hadimba Temple is planning to go on June. The person, who wants to see Rohtang Pass is above the person, who wants to see Old Manali (but not immediate above). Q sits below R and one person sits between Q and U. Only One person sits between the person, who wants to see Solang Valley and the person, who wants to see Vashisht Baths, who is planning to go on July. There are three person sit between the one who is planning to go on June and V. The person, who wants to see Beas Kund is planning to go on May and sits immediate above the person, who wants to see Vashisht Baths. U wants to see Rohtang Pass and he is not planning to go on August and September. V is planning to go on September and he does not want to see Solang Valley. Two persons sit between U and T. T does not want to see that location, which is immediate below the person, who is planning to go on July.

Q22. How many persons are between the person, who is planning to go on July and the person, who wants to see Old Manali?

- (a) Five
- (b) Four
- (c) Two
- (d) None
- (e) Three



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Q23. Who among the following person is immediate above the person, who wants to see Solang Valley?

- (a) T
- (b) R
- (c) S
- (d) Q
- (e) None of these

Q24. Which of the following location P wants to see?

- (a) Solang Valley
- (b) Rohtang Pass
- (c) Vashisht Baths
- (d) Old Manali
- (e) None of these

Q25. 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) Old Manali
- (b) June
- (c) U
- (d) T
- (e) Beas Kund

Q26. The person, who wants to see Adventure Activities, is planning to go on which of the following month?

- (a) August
- (b) February
- (c) July
- (d) September
- (e) None of these

Direction (27-28): Study the following information carefully and answer the given questions:

There are nine members in a family i.e. A, B, C, D, E, F, G, H, I. Among them three are married couples. There are four male members in a family. Only three generations in a family. B and H have only one child. I is son of C. E's husband's sister has two nephews. E's grandson's mother's husband is B. D is niece of B. There is one generation gap between A's brother and H's wife. F is female.

Q27. How is D related to C's father-in-law?

- (a) Grandson
- (b) Grand-daughter
- (c) Son
- (d) Daughter
- (e) None of these

Q28. How is F's husband related to B's wife?

- (a) Brother
- (b) Son
- (c) Brother-in-law
- (d) Can't be determined
- (e) None of these

Q29. Which of the following symbols should replace the sign (?) and (*) in the given expression in order to make the expression $J > Z$ definitely true and $Q > X$ definitely false?

$$Y \geq Z < Q ? J = U \leq I * X$$

- (a) None of these
- (b) \geq, \leq
- (c) $>, \leq$
- (d) $=, <$
- (e) $\geq, <$

Q30. Raman sits 16th from left end of the row and Yamini sits 8th from the right end of the row. Raman and Yamini interchange their positions, after interchanging the position Raman position is 20th from left end. Find the number of boys and number of girls in the row, if boys and girls are in the ratio of 6:3. All are seated in a row and facing towards north?

- (a) 18 boys, 9 girls
- (b) 9 boys, 18 girls
- (c) 17 boys, 10 girls
- (d) Can't be determined
- (e) None of these

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

Eight friends A, B, C, D, E, F, G and H are sitting around a circular table, but not necessarily in the same order. All friends are facing the centre. Each person has different salaries i.e.1400, 1600, 1500, 76641, 25547, 86543, 87000, and 91000 but not necessarily in the same order.

F sits at 135° clockwise direction to B. Salary of the one, who sits 2nd to right of B is an odd number which is divisible by 3. There is an angle of 135° between A and G. B's salary is average of H's and D's salary. There is an angle of 90° between A and H. D is not an immediate neighbor of the one whose salary is 76641. G's salary is 1/3rd of A's salary. There is an angle of 180° between B and the one whose salary is perfect square. H is not an immediate neighbor of the one, whose salary is 25547. C's salary is 2nd largest salary among all the salaries. There is an angle of 180° between F and E, whose salary is an odd number. B sits at 90° clockwise direction of A.

Q31. How many persons sit between E and the one, whose salary is highest?

- (a) Three
- (b) Four
- (c) One
- (d) More than four
- (e) None of these

Q32. Who among the followings sits immediate left of the one who is 3rd to the left of H?

- (a) B
- (b) A
- (c) Whose salary is 1500
- (d) Both a and c
- (e) None of these

Q33. What is the salary of A?

- (a) 1600
- (b) 1500.
- (c) 76641.
- (d) 91000.
- (e) None of these

Q34. Who sits exactly between H and D?

- (a) A
- (b) G
- (c) None of these
- (d) B
- (e) F

Q35. What is the salary of the one who sits 2nd right of F?

- (a) 1600
- (b) 25547
- (c) 1400
- (d) 91000
- (e) None of these



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