**Study the following information carefully and answer the questions given below:**

Eight persons i.e. P, Q, R, S, T, U, V and W are sitting in a circular table but not necessarily in same order. All are facing towards center.

P sits 2nd to the right of Q, who is an immediate neighbor of R. Three persons sit between R and T, who is not an immediate neighbor of P. W sits 2nd to the left of V, who is not an immediate neighbor of S.

1. Who among the following person sits immediate right of S?
a. P
b. R
c. T
d. Q
e. None of these

2. Who among the following person faces U?
a. Q
b. R
c. S
d. T
e. None of these

3. How many persons are sitting between W and Q?
a. Two
b. Three
c. One
d. Four
e. Either (a) or (d)

4. Who among the following persons are immediate neighbors of V?
a. T and Q
b. T and U
c. P and R
d. P and S
e. None of these

5. Four of the following five are alike in certain way based on a certain pattern, find the one which does not belong to that group?
a. P-V
b. P-U
c. Q-W
d. R-T
e. S-U

6. In the word 'MANAGER', how many pairs of the letters have the same number of letters between them in the word as in alphabet?
a. Four
b. Two
c. One
d. Three
e. More than four

7. How many such numerals are there in the number '452316897' which will remain at the same position when arranged in ascending order from left to right?
a. One
b. Two
c. Three
d. None
e. More than Three

**Study the following information carefully and answer the questions given below:**

There are two couples in a six membered family. A is the sister in law of B, who is the father of C. D is grandmother of E, who is the son of C. F is the daughter in law of B.

8. How is B related to E?
a. Father
b. Grandfather
c. Grandson
d. Son
e. Can't be determined

9. How many male members are in the family?
a. Two
b. Three
c. Four
d. Either (b) or (c)
e. None of these

10. How is A related to C?
a. Aunt
b. Uncle
c. Niece
d. Daughter
e. Can't be determined

**Study the following information carefully and answer the questions given below:**

Eight persons are sitting in two rows. In row 1, A, B, C, D are sitting, and all are facing North and in row 2, P, Q, R, S are sitting and all of them are facing South. Each person of row 1 is facing another person of row 2. All information is not necessarily in same order.

A sits 2nd to the left of the person who faces S. B faces the person who sits immediate left of P. Two persons sit between Q and R. C neither face P nor face R.

11. Who among the following person faces D?
a. P
b. Q
c. R
c. S
d. None of these

12. Who among the following person sit 3rd to the left of the person who faces A?
a. Q
b. P
c. R
d. S
e. None of these

13. Who among the following person faces to the person who sits immediate left of R?
a. B
b. A
c. D
d. C
e. None of these

14. Who among the following person sits immediate right of C?
a. No one
b. A
c. B
d. D
e. None of these

15. Four of the following five are alike in certain way based on a certain pattern, find the one which does not belong to that group?
a. R
b. P
c. Q
d. A
e. C

**Following questions are based on the five three-digit numbers given below.**
**123 320 287 424 521**

16. If all the digits in each of the numbers are arranged in ascending order within the number then, which of the following number will become the highest in the new arrangement of numbers?
a. 123
b. 320
c. 287
d. 424
e. 521

17. If all the numbers are arranged in descending order from left to right then, which of the following will be the product of 3rd digit of 2nd number from left and 3rd digit of 2nd number from right in new arrangement?
a. 26
b. 24
c. 28
d. 20
e. 30

18. What will be the resultant when 3rd digit of the highest number is multiplied with the 2nd digit of the lowest number?
a. 2
b. 6
c3. 8
d. 16
e. 12

19. If the positions of the second and the third digits of each of the numbers are interchanged then, how many odd numbers will be formed?
a. None
b. One
c. Two
d. Three
e. Four

20. If one is subtracted from each of the numbers then, how many numbers thus formed will be divisible by three?
a. None
b. One
c. Two

d. Three
e. Four

**In each of the questions below are given some statements followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.**

21. **Statements**:
Some America is USA.
All England is Europe.
No England is America.
**Conclusion**
I: Some USA is Europe.
II: No USA is Europe.
a. If only conclusion I follows.
b. If only conclusion II follows.
c. If either conclusion I or II follows.
d. If neither conclusion I nor II follows.
e. If both conclusions I and II follow.

22. **Statements**:
All Assistant is Clerk.
Some Clerk is PO.
All PO is Manager.
**Conclusion**
I: Some Clerk is Manager.
II: All Clerk is Manager.
a. If only conclusion I follows.
b. If only conclusion II follows.
c. If either conclusion I or II follows.
d. If neither conclusion I nor II follows.
e. If both conclusions I and II follow.

23. **Statements**:
All Home is House.
All Office is Home.
All House is Building.
**Conclusion**
I: Some Home is Building.
II: No Home is Building.
a. If only conclusion I follows.
b2. If only conclusion II follows.
c. If either conclusion I or II follows.
d. If neither conclusion I nor II follows.
e. If both conclusions I and II follow.

24. **Statements**:
No Problem is Solution.
All Solution is Question.
Some Question is Answers.
**Conclusion**
I: Some Solution being Answers is a possibility.
II: No Solution being Answers is a possibility.
a. If only conclusion I follows.
b. If only conclusion II follows.
c. If either conclusion I or II follows.
d. If neither conclusion I nor II follows.
e. If both conclusions I and II follow.

25. Statements:
Only Akash is Amar.

Only a few Akash is Adarsh.
Few Adarsh is Ashish.
Conclusion
I: Some Amar is Ashish.
II: Some Adarsh is Akash.
a. If only conclusion I follows.
b. If only conclusion II follows.
c. If either conclusion I or II follows.
d. If neither conclusion I nor II follows.
e. If both conclusions I and II follow.

**Study the following information carefully and answer the questions given below:**
Eight persons i.e. A, B, C, D, P, Q, R, S are living in an eight floored building but not necessarily in a same order. First floor is numbered as 1, just above floor is numbered as 2 and so on until topmost floor is numbered as 8.
B lives above C and below P. Three persons live between A and R, who lives at odd numbered floor. S lives at even numbered floor but below floor number 5. There are as many persons live between S and C as between P and B. C lives at even numbered floor. Q lives above D, who doesn't live at bottommost floor. A lives above R. D lives below C.

26. Who among the following person live just above the floor on which Q lives?
a. A
b. B
c. P
d. R
e. None of these

27. How many persons live above A?
a. Two
b. One
c. Four
d. Three
e. None of these

28. In which of the following floor D lives?
a. Floor 2
b. Floor 3
c. Floor 4
d. Floor 5
e. None of these

29. Who among the following person lives at bottommost floor?
a. P
b. Q
c. R
d. S
e. None of these

30. Four of the following five are alike in certain way based on a certain pattern, find the one which does not belong to that group?
a. Q
b. R
c. A
d. D
e. C

**In each of the questions below are given some statements followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.**

**Statements:**
$Z \leq X < C = V < B \leq N > M \leq K$
**Conclusion**
I: $Z < B$
II: $X > M$
31.
a. If only conclusion I follows.
b. If only conclusion II follows.
c. If either conclusion I or II follows.
d. If neither conclusion I nor II follows.
e. If both conclusions I and II follow.

**Statements:**
$A = S \geq D \geq F > G < H \leq J$
**Conclusion**
I: $D \geq G$
II: $S > H$
32.
a. If only conclusion I follows.
b. If only conclusion II follows.
c. If either conclusion I or II follows.
d. If neither conclusion I nor II follows.
e. If both conclusions I and II follow.

**Statements:**
$Q = W < E > R = T \geq Y \geq U$
**Conclusion**
I: $Q = Y$
II: $E > Y$
33.
a. If only conclusion I follows.
b. If only conclusion II follows.
c. If either conclusion I or II follows.
d. If neither conclusion I nor II follows.
e. If both conclusions I and II follow.

**Statements:**
$U > J \geq I = K > O > L$
**Conclusion**
I: $J > L$
II: $K < U$
34.
a. If only conclusion I follows.
b. If only conclusion II follows.
c. If either conclusion I or II follows.
d. If neither conclusion I nor II follows.
e. If both conclusions I and II follow.

**Statements:**
$M \leq N < J = K > L \leq H > G$

**Conclusion**

I: $N > L$

II: $J > L$

35.

a. If only conclusion I follows.

b. If only conclusion II follows.

c. If either conclusion I or II follows.

d. If neither conclusion I nor II follows.

e. If both conclusions I and II follow.

**Study the following information carefully and answer the questions given below:**

Six persons i.e. A, B, C, D, E and G are working in different days i.e. Monday, Tuesday, Wednesday, Thursday, Friday and Saturday starting from Monday of the same week but not necessarily in same order.

A works before B but not just before. Three persons work in between C and D. E doesn't work on Tuesday and Wednesday. G works after Thursday. There are as many persons work before E as after B. C works before D.

36. Who among the following person is working on Friday?

a. C

b. D

c. E

d. G

e. None of these

37. How many persons are working between B and G?

a. None

b. One

c. Two

d. Three

e. More than three

38. In which of the following day C is working?

a. Monday

b. Tuesday

c. Wednesday

d. Thursday

e. None of these

39. Who among the following person works on Monday?
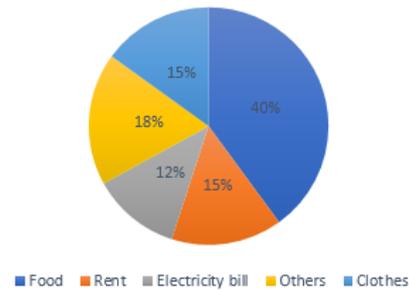
a. A

b. C

c. B

d. D

e. None of these

40. Four of the following five are alike in certain way based on a certain pattern, find the one which does not belong to that group?

a. B-Monday

b. C-Thursday

c. D-Wednesday

d. G-Friday

e. E-Tuesday

**The given pie chart shows percentage distribution of various expense of a family in a given month.**

Study the graph carefully and answer the following questions.

**Total expense = Rs 25,000**



■ Food  ■ Rent  ▦ Electricity bill  ▦ Others  ■ Clothes

**Note:-** Monthly Income =Expense+Savings

41. What is the average expense on Rent, Electricity bill and Others?

a. Rs 5000

b. Rs 3000

c. Rs 3750

d. Rs 2750

e. Rs 3250

42. If expense on Food is 125/4% of monthly family income, then find the total monthly income of family.

a. Rs 28000

b. Rs 42000

c. Rs 35000

d. Rs 38000

e. Rs 32000

43. If expense on Others consist of Telephone bill, expense on Entertainment and expense on commuting in the ratio 4 :6 :5, then monthly expense on Electricity bill is what percent more or less than that on Telephone bill?

a. 100%

b. 150%

c. 200/3%

d. 125%

e. 75%

44. If monthly saving of the family is 30% of the monthly income, then find the ratio of the expense on the Clothes to Savings of the family.

a. 3/20

b. 7/20

c. 11/20

d. 9/20

e. 1/4

45. Find central angle (in degrees) of monthly expense of family on electricity bill.

a. 76.4

b. 68.6

c. 32.8

d. 54.6

e. 43.2

**What should come in place of question mark (?) in the following questions?**

$\sqrt{484} \div \frac{11^2}{8} + ? = \frac{38}{11}$

46.

a. 22

b. 2

c. 1
d. 11
e. 4

47. $?\% \text{ of } 2800 \div \frac{3}{7} \text{ of } 49 = 420$

a. 315
b. 305
c. 560
d. 460
e. 360

48. $20\% \text{ of } 360 \div 15\% \text{ of } 240 \times (12)^2 = ? \times 6^2$

a. 4
b. 6
c. 8
d. 12
e. 9

49. $0.06 \times 0.84 = ? \times 1.2 \times 0.015$

a. 8.2
b. 6.4
c. 2.6
d. 3.8
e. 2.8

50. $8.41 + 6.25 + 0.79 = ? - 0.55$

a. 17
b. 14.9
c. 13.9
d. 16
e. 14.7

51. $\frac{(12+44)}{8} \times 28 = ?^2$

a. 13
b. 16
c. 17
d. 14
e. 19

52. $616 + 472 - 811 + 317 = ? + 576$

a. 28
b. 16
c. 24
d. 18
e. 14

53. $12.5 \times 80 + 37.5 \times 16 - 6.25 \times 112 = ?$

a. 1000
b. 900
c. 2300
d. 600
e. 1300

54. $23 \div 48 \times 576 = ? \times \frac{3}{2}$

a. 148
b. 194
c. 176

d. 154
e. 184

55. $(1.2)^2 + (1.5)^2 + (2.1)^2 - (1.9)^2 = ?$

a. 4.99
b. 5.69
c. 3.69
d. 6.79
e. 4.49

**Find wrong number in the given series.**

56. 5, 9, 25, 59, 125, 225, 369
1. 59
2. 5
3. 25
4. 225
5. 369

57. 540, 550, 575, 585, 615, 620, 645
a. 540
b. 585
c. 615
d. 645
e. 575

58. 4, 11, 30, 67, 128, 221, 346
a. 346
b. 221
c. 128
d. 4
e. 11

59. 16, 4, 2, 1.5, 1.75, 1.875, 2.8125
a. 16
b. 1.875
c. 2.8125
d. 1.75
e. 2

60. 18, 30, 52, 79, 116, 148, 210
a. 148
b. 18
c. 116
d. 52
e. 79

**In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and answer the following questions.**

61. I. $2x^2 - 17x + 36 = 0$
II. $2y^2 - 19y + 45 = 0$

a. x > y
b. x < y
c. x ≥ y
d. x ≤ y
e. x = y or no relation.

62. I. $x^2 - 25x + 154 = 0$
II. $y^2 - 28y + 195 = 0$

a. x > y
b. x < y
c. x ≥ y

d. x ≤ y
e. x = y or no relation.

I. $\frac{10}{x} - \frac{24}{x^2} = 1$

II. $\frac{5}{y} - \frac{6}{y^2} = 1$

63.
a. x > y
b. x < y
c. x ≥ y
d. x ≤ y
e. x = y or no relation.

I. $3x^2 - 10x - 8 = 0$
II. $2y^2 - 23y + 60 = 0$

64.
a. x > y
b. x < y
c. x ≥ y
d. x ≤ y
e. x = y or no relation.

I. 12x − 16y = -16
II. 17y − 13x = 12

65.
a. x > y
b. x < y
c. x ≥ y
d. x ≤ y
e. x = y or no relation.

66. If an amount of Rs. 12120 is distributed in three persons such that share of C is half of A and B together and share of B is one-third of A and C together. Find share of B and C together?
a. Rs. 5050
b. Rs. 7070
c. Rs. 4040
d. Rs. 8080
e. Rs. 9090

67. What would be the compound interest obtained on an amount of Rs 4500 at the rate of 15% p.a. compounding annually in 2 yrs ?
a. Rs 1451.25
b. Rs 1144.8
c. Rs 1482.25
d. Rs 7750.50
e. None of these

68. If M.R.P. of an article is marked 50% above cost price and profit earned on article is equal to half of discount given on article. Find S.P., if M.R.P. is Rs. 2250?
a. Rs. 2000
b. Rs. 1750
c. Rs. 1850
d. Rs. 1650
e. None of these.

69. Two train moving in opposite direction with speed of 50km/min and 80 km/min respectively crosses each other in 1 second and ratio between length of faster train to that of slower train is 7:6. Find length of another train whose length is 20% more than length of slower train?
a. 0.1 km
b. 1.167 km
c. 1.200 km
d. 0.1800 km
e. None of these.

70. If a certain sum become twice in 3 years at certain rate at SI, then find simple interest earned on Rs. 1500 after 4 year at same rate of interest?
a. Rs. 1500
b. Rs. 2000
c. Rs. 2250
d. Rs. 1550
e. Rs. 1750

71. Simple interest become what time of principle of Rs 2500 after 8 yrs at the rate of 22.5% per annum at SI?
a. 1.2 times
b. 1.8 times
c. 1.5 times
d. 2.2 times
e. None of these

72. Ten years ago, father age was 12 times of his son's age and present age of father is 7 times of his son's age. Find present age of son ?
a. 20 yrs
b. 22 yrs
c. 32 yrs
d. 40 yrs
e. 18 yrs

73. A and B invested into a partnership for 2/3 rd and 2/5 th of investment time respectively. If A and B invested Rs.2000 and Rs. 5000 respectively. Find profit share of A is how much percent more/less than profit share of B?
a. 16.33%
b. 14.28%
c. 7.14%
d. 33.33%
e. 33.67%

74. Population of a city increases by 15% and $4\frac{8}{23}\%$ in two successive years respectively. If population of city after two years is 24024, then find initial population of city?
a. 20020
b. 20002
c. 20120
d. 20802
e. None of these.

75. Find total no. of result that can be obtained when 2 coins are tossed and two dice are rolled simultaneously?
a. 124
b. 24
c. 180
d. 144
e. 120

**Deepak, Dharam and Shivam invested in partnership for one year. Ratio of investment of Deepak, Dharam and Shivam for first 6 months, next four month and for remaining time is 3:2:3, 2:5:3 and 4:3:3 respectively. Amount invested by Deepak in first 6 months, Dharam in next four month and by Shivam in remaining time is Rs.1500, Rs. 2000 and Rs. 900 respectively. Total difference between profit share of Dharam and Shivam together and Deepak and Dharam together is Rs. 450.**

76. Total investment of Deepak is approximately what percent of total investment of Shivam in one year?
a. 96%
b. 95%
c. 97%
d. 92%
e. 99%

77. What is profit share of Dharam after one year?
a. Rs.7110
b. Rs. 6570
c. Rs. 7020
d. Rs. 6560
e. Rs. 7220

78. What is the ratio of investment made by Deepak for 4 months to investment made by Shivam for 2 months?
a. 5:7
b. 6:7
c. 4:5
d. 8:9
e. 3:2

79. What is the difference between investment made by Dharam for 6 months and 4 months together and total investment made by Shivam?
a. Rs. 900
b. Rs. 600
c. Rs. 800
d. Rs. 400
e. Rs. 500

80. Investment made by Deepak for 2 months is how much percent more or less than investment made by Shivam for 6 months?
a. 20% more
b. 25% less
c. 25% more
d. 20% less
e. None of these