

1. Every composite number can be factorised into its ----- factors.
a)Prime b)Odd c)Even d)None of these
2. Number of even prime numbers. a)2 b)1 c)Only b d)Both b & c
3. What is the ratio of the sum of first 25 odd natural numbers to next 25 odd natural numbers.
a)1:4 b)1:3 c)1:2 d)2:7
4. Every ----- numbers is either rational or irrational.
a)Natural b)Real c) Prime d) None of the above
5. Which of the following is true.
i) An infinite number of rational number can be determined between any two rational number.
ii) 5 is least composite number iii) Product of two irrational number is an irrational number.
iv) Every integer is a natural number
a)Only (i) and (iv) b)Only (iii) c)Only (i) d) Only (ii) and (iii)
6. The sum of three digit numbers is subtracted from the number. The resulting number is always.
a)Divisible by 9 b)Divisible by 6 c) Both a and b d) All the above
7. ----- is a natural number that has atleast one divisor different from unity and itself
a)0 b)Composite number c) Prime number d)4
8. ----- is neither positive nor negative a)0 b)1 c)4 d)None of the above
9. Find the number of odd factors of 2700 a) 24 b)16 c)12 d)8
10. Every integer is a ----- number
a)Rational b)Real c)Whole d)Natural
11. The product of 2 natural numbers is 9222, if they differ by 19, then find out the sum of the numbers.
a)205 b)199 c)193 d)195
12. How many prime numbers between 1 and 100. a)30 b)25 c)20 d)15
13. If we write down all the natural numbers from 259 to 492 by side get a very large natural number 259260261 491492. How many 8's will be used to write this large natural numbers?
a)32 b)43 c)52 d)53
14. If each of the three non zero numbers a, b and c is divisible by 3, then abc must be divisible by which one of the following the numbers? a)8 b)27 c)81 d)121
15. A girl wrote all the numbers from 100 to 200, then she started counting the number of one's that has been used while writing all these numbers. What is the number that she got? a)111 b)119 c)120 d)121
16. $5\frac{1}{5} + 4\frac{1}{2} + 4\frac{1}{3} = ?$ a) $14\frac{1}{10}$ b) $13\frac{1}{5}$ c) $\frac{13}{30}$ d) $14\frac{1}{30}$
17. $2x - 6 = \frac{676}{26}$. What will come in the place of question mark? a)9 b) $\frac{15}{26}$ c)16 d)26
18. Express $\frac{2}{3}$ of $\frac{1}{4}$ of Rs. 25.20 as a fraction of $1\frac{1}{2}$ of Rs. a) $\frac{7}{90}$ b) $\frac{11}{90}$ c) $\frac{5}{8}$ d) $\frac{5}{42}$
19. $\frac{4}{7}$ of $\frac{2}{3}$ of $\frac{5}{6}$ of $\frac{5}{8}$ of 1008 is ----- a)200 b)144 c)64 d)400
20. By how much is four – seventh of 560 greater than five – eighth of 400 a)210 b)70 c)90 d)110
21. Which of the following fraction does not lie between $\frac{5}{6}$ and $\frac{8}{15}$ a)2/3 b)3/4 c)4/5 d)6/7
22. Which of the following fraction is greater than $\frac{2}{3}$ and less than $\frac{4}{5}$?
a)1/2 b)9/10 c)3/4 d)5/6
23. Which of the following fraction is the smallest ? a) $\frac{12}{14}$ b) $\frac{13}{19}$ c) $\frac{17}{21}$ d) $\frac{7}{8}$
24. Which is largest amongst $\frac{5}{8}$, $\frac{2}{3}$, $\frac{7}{9}$, $\frac{3}{5}$? a)5/8 b)2/3 c)7/9 d)3/5
25. Which of the following is in descending order?
a) $\frac{5}{8}$, $\frac{9}{13}$, $\frac{11}{17}$ b) $\frac{5}{8}$, $\frac{11}{17}$, $\frac{9}{13}$ c) $\frac{9}{13}$, $\frac{11}{17}$, $\frac{5}{8}$ d) $\frac{11}{17}$, $\frac{9}{13}$, $\frac{5}{8}$
26. A fraction is divided by reciprocal of itself. It is then multiplied by the original fraction. What is the fraction if the answer obtained is $11\frac{25}{64}$? a) 9/4 b)27/8 c)9/8 d)2/3
27. If a fraction's denominator is decreased by 80% and numerator is increased by 300%, the fraction becomes $\frac{2}{9}$. What is the fraction?
a)8/9 b)6/45 c)1/90 d)6/72
28. If one is added to the numerator of the fraction it becomes one. If one is added to the denominator of the fraction it becomes $\frac{1}{2}$. The fraction is -----? a)1/2 b)3/5 c)2/3 d)2/5

29. A class eats $\frac{2}{5}$ of chocolates on 1st day. On the 2nd day they eat $\frac{3}{4}$ of the remainder. How many chocolates were there initially if still 75 chocolates are left? a)250 b)500 c)750 d)1000
30. What is increasing Order of the fractions $\frac{14}{17}$, $\frac{10}{12}$, $\frac{6}{7}$, $\frac{18}{22}$?
a) $\frac{6}{7}$, $\frac{14}{17}$, $\frac{10}{12}$, $\frac{18}{22}$ b) $\frac{6}{7}$, $\frac{10}{12}$, $\frac{14}{17}$, $\frac{18}{22}$ c) $\frac{14}{17}$, $\frac{10}{12}$, $\frac{6}{7}$, $\frac{18}{22}$ d) $\frac{18}{22}$, $\frac{14}{17}$, $\frac{10}{12}$, $\frac{6}{7}$
31. SCD, TEF, UGH? a)VIJ b)VUK c)IJK d)JIV
32. FAG, GAF, ? IAH a)JAK b)HAI c)HAK d)HAL
33. A, CD, GHI, MNOP ? a)MNO b)UXWVY c)UVWXY d)UX
34. 2, 12, 36, 80, 150? a)252 b)250 c)210 d)196
35. 8, 7, 11, 12, 14, 17, 17, 22? a)27 b)20 c)24 d)22
36. A B A B C B C B C D C D? a)D b)C c)E d)F
37. ATTRIBUTION, TTRIBUTIO, RIBUTIO, IBUTI ? a)BUT b)UTI c)UT d)IBU
38. CX fu ir ? ol ri a)lo b)mn c)no d)op
39. 4, -8, 16, ? 64 a)-32 b)30 c)-30 d)32
40. 1,6, 13, 22, 33? a)44 b)45 c)46 d)47
41. DGK, HMS, MTB ? ZKW a)SUL b)SBL c)PBL d)PLU
- 42.3F, 6G, 11I, 18L ? a)21 O b)25 N c)27 P d)27 Q
43. 7, 26, 63, 124, 215 ? a)391 b)342 c)421 d)324
44. 6.25, 9, 12.25 ? 20.25 a)16 b)16.25 c)14.25 d)20
45. AC, EH, IM, MR ? a)MI b)IL c) IM d) QW
46. One ticket is selected at random from 50 tickets numbered 0, 1, 2, ... 49. Then, the probability that the sum of the digits on the selected ticket is 8, given that the product of these digit is zero equals
a) $\frac{1}{14}$ b) $\frac{1}{7}$ c) $\frac{5}{14}$ d) $\frac{1}{50}$
47. It is given that the events A and B are such that $P(A) = \frac{1}{4}$, $P(A/B) = \frac{1}{2}$ and $P(B/A) = \frac{2}{3}$. Then $P(B/A) = \frac{2}{3}$. find $P(B)$.
a) $\frac{1}{2}$ b) $\frac{1}{6}$ c) $\frac{1}{3}$ d) $\frac{2}{3}$
48. A die is thrown. Let A be the event that the number obtained is greater than 3. Let B be the event that the number obtained is less than 5. Then $P(A \cup B)$ is. a) $\frac{2}{5}$ b) $\frac{3}{5}$ c)0 d)1
49. A pair of fair dice is thrown independently three times. The probability of getting a total of exactly 9 twice is
a) $\frac{1}{729}$ b) $\frac{8}{9}$ c) $\frac{8}{729}$ d) $\frac{8}{243}$
50. The probability that a number selected at random from the first 50 natural numbers is a composite number is ----
a) $\frac{21}{25}$ b) $\frac{17}{25}$ c) $\frac{4}{25}$ d) $\frac{8}{25}$
51. If six persons sit in a row, then the probability that three particular persons are always together is -----.
a) $\frac{1}{20}$ b) $\frac{1}{5}$ c) $\frac{4}{5}$ d) $\frac{2}{5}$
52. What is the probability that a leap year has 53 Sundays and 52 Mondays?
a) $\frac{1}{7}$ b) $\frac{2}{7}$ c)0 d) $\frac{5}{7}$
53. A problem is given to three students whose chances of solving it are $\frac{1}{2}$, $\frac{1}{3}$ and $\frac{1}{4}$ respectively. What is the probability that the problem will be solved. a) $\frac{1}{4}$ b) $\frac{1}{2}$ c) $\frac{3}{4}$ d) $\frac{7}{12}$
54. In a lottery, there are 10 prizes and 25 blanks. A lottery is drawn at random. What is the probability of getting a prize?
a) $\frac{2}{7}$ b) $\frac{5}{7}$ c) $\frac{1}{5}$ d) $\frac{1}{2}$
55. A man and his wife appear in an interview for two vacancies in the same post. The probability of husband's selection is $(\frac{1}{7})$ and the probability of wife's selection is $(\frac{1}{5})$. What is the probability that only one of them is selected?
a) $\frac{2}{7}$ b) $\frac{1}{7}$ c) $\frac{3}{4}$ d) $\frac{4}{5}$
56. In a class, 30% of the students offered English, 20% offered Hindi and 10% offered both. If a student is selected at random, what is the probability that he has offered English or Hindi? a) $\frac{1}{2}$ b) $\frac{3}{4}$ c) $\frac{4}{5}$ d) $\frac{2}{5}$
57. If two letters are taken at random from the word HOME. What is the probability that none of the letters would be vowels? a) $\frac{1}{6}$ b) $\frac{1}{2}$ c) $\frac{1}{3}$ d) $\frac{1}{4}$
58. Two brother X and Y appeared for an exam. The probability of selection of X is $\frac{1}{7}$ and that of B is $\frac{2}{9}$. Find the probability that both of them are selected. a) $\frac{1}{63}$ b) $\frac{1}{14}$ c) $\frac{2}{63}$ d) $\frac{1}{9}$
59. Three houses are available in a locality. Three persons apply for the houses. Each applies for one house without consulting others. The probability that all the three apply for the same house is -----
a) $\frac{2}{9}$ b) $\frac{1}{9}$ c) $\frac{8}{9}$ d) $\frac{7}{9}$
60. In a race, the odd favour of cars P,Q,R,S are 1:3, 1:4, 1:5 and 1:6 respectively. Find the probability that one of them wins the race. a) $\frac{319}{420}$ b) $\frac{27}{111}$ c) $\frac{114}{121}$ d) $\frac{231}{420}$

61. In a group of 5 girls, Kamini is the second tallest girl. Pooja is taller than Mounika. Roopa is tallest among all. Neelam is taller than Pooja. If we make them stand in ascending order (according to their heights), who stands at the second position?

- a) K is 2nd Tallest
b) P
c) R > among all (so she is first, we already know that K is second)
d) N

62. Which of the following represents "W" is Grand Father of H'?

- a) $W + T - H$ b) $W \% T - H$ c) $W \times T + H$ d) $W \% T + H$ e) None of these

63. Pooran has more bank balance than Sushma but lesser than Singh. If the bank balances of Pooran, Sushma and Singh are X, Y, Z, then which of the following equations is correct?

- a) $X < Y < Z$ b) $Y < X < Z$ c) $Z < X < Y$ d) $X < Z < Y$

64. Sita, Malathi, Reshma, Mary and Kamala are going on a safari. For every 5 kilometers they planned to change the leader according to the alphabetical order. And planned to take a tea break for every 10 kilometers. If they start Kamala, then who will be the leader of the group after second tea break?

- a) Reshma b) Site c) Malathi d) Mary

65. Amit and Sumit are twins. Richa is younger than Sumit. Richa is Younger than Jyothi but older than Sourabh. Sumit is younger than Jyothi. Who is the oldest among all?.

- a) Amit b) Sumit c) Jyothi d) Sourabh

66. A group of friends have gold coins. Ramu has a gold coin which is heavier than Mohan's and Valuable than Ramesh. The value of Naresh is more valuable than Ramu's. Naresh has a coin which is lighter than you Mohan's coin is cheaper than Ramesh's. Who's coin is more valuable?

- a) Mohan b) Ramu c) Naresh d) (a) and (b) equal

67. A is taller than B, C is taller than D. D is taller than B. So who is the tallest person in the group?

- a) $A > B$ b) $C > D$ c) $D > B$ d) No accvrote answer

68. Five of my friends wrote IBPS PO Exam.

Alok got good rank than Suresh. Suresh got good rank than Prakash. Alok's rank was not as good as Nikhil's. Kabir secured a rank between Alok and Suresh. Now who has more chances for the selection?

- a) Alok b) Kabir c) Suresh d) Nikhil

69. In the expression $B + D \times M \% N$, how is M related to B?

- a) Son b) Grand Daughter c) Grand Son d) Grand Daughter or Grand Son e) None of the above

70. Vikas is taller than Shyam but shorter than Umesh. Umesh is taller than Rajitha but shorter than Ganesh. Shyam is taller than Rajitha. Now say who is the shortest person in the group?

- a) Vikas b) Shyam c) Umesh d) Rajitha

71. Which of the following represents A is nephew of B?

- a) $A \% B - C$ b) $C \% B - A$ c) $C \times B + A \times D$ d) None of the above.

72. B is husband of C. A is sister of B. D is sister of C. How is D related to B?

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

73. Pointing towards a girl, a person said, " She is only daughter of the only son of the wife of the father-in-law of my wife". How is the girl related to the person?

- a) Niece b) Daughter c) Sister d) Daughter-in-law

74. The mirror image of number Six "6" is same as the water image of which Number?

- a) 6 b) 8 c) 9 d) 3

75. Amit is the son of Ajit's grandfather's only daughter. How is Ajit's father related to Amit?

- a) Grandfather b) Uncle c) Father d) None of these

76. Seven alphabets are same as their water images. What are they?

- a) C, D, E, H, I, O, X b) C, B, E, H, I, O, X c) C, D, E, H, J, O, X d) C, D, E, H, I, V, X

77. Which two numbers have their water image exactly like them.

- a) 0 and 6 b) 0 and 8 c) 8 and 6 d) 9 and 6

78. The water image of five alphabets are same with their mirror images what are they?

- a) H, I, N, M, X b) B, I, N, O, X c) H, I, N, O, X d) H, I, N, O, Z

79. Bank is related to " Money" in the same way as " Transport" is related to?

- a) Movement b) Road c) Goods d) Traffic

80. " Horse is related to " Hoof" in the same way as " Eagle" is related to?

- a) Leg b) Clutch c) claw d) Foot e) None of the above

81. Marriage is to "Divorce" as "True" is to?
 a) Truth b) Story c) Fiction d) False e) None of the above
82. The mother of Ranbir is the only daughter of Neetu's father. How Neetu is related to Ranbir?
 a) Sister b) Mother c) Aunt d) None of these
83. Pointing to a boy Rekha said, "He is the son of my mother-in-law's only child". How is the boy related to Rekha?
 a) Son b) Grand Son c) Nephew d) Brother
84. If % means +, - means x, x means -, + means /, then what will be the value of $15 - 2 / 900 + 90 \times 100$?
 a) -50 b) 50 c) 60 d) -60
85. If Q means Addition, J means Multiplication, T means Subtraction, K means Division, then what is the value of 30K2Q3J6T5?
 a) 26 b) 28 c) 30 d) 32
86. If P means Multiplication, R means Addition, T means Division, S means Subtraction, then what will be the value of 18T3P9S8R6?
 a) 52 b) 50 c) 48 d) 54
87. The following pattern starts with four and uses the rule add six to the previous term.
 4, 10, 16, 22, 28, 4, 10, 16, 22, 28, comma, 10, comma, 16, comma, 22, comma, 28
 Which of the following statements is true?
 a) Every other number in the pattern is odd. b) The pattern includes only multiples of four
 c) Every number in the pattern is greater than the previous number d) None of the above
88. 1. not 2. Maria 3. run 4. did 5. away
 a) 24153 b) 21354 c) 24135 d) 41235
89. A coin is thrown 3 times. What is the probability that at least one head is obtained?
 a) $3/8$ b) $7/8$ c) $4/8$ d) $9/8$

BASED ON THE PASSAGE ANSWER THE QUESTIONS 90, 91, 92, 93

Ten friends A, B, C, D, M, N, P, R, X and Y practice for their running relay in a track of ground with a radius of 35m. All of them are facing towards the center of the ground and are standing at equal distance to run in clockwise direction. B and M are immediate neighbors of X. Distance between B and D is 44m along the circumference whereas B stands to the right of D. Two persons stand between M and N. P and C stands at a distance of 110m along the circumference. P is an immediate neighbor of D. Y stands third to the left of A.

Who among the following stands exactly between P and N when calculated from the right of P?

90. a) A b) R c) Y d) M e) X
91. What is the distance between C and B if C starts running towards B?
 a) 132m b) 88m c) 110m d) 66m
 e) 22m
92. Four of the following are alike in a certain way. Which among the following does not belong to the group?
 a) PB b) MY c) AN d) RD e) XM
93. If R starts running and cross two persons then with whom R will end up?
 a) C b) M c) Y d) None of these

BASED ON THE PASSAGE ANSWER THE QUESTIONS 94, 95, 96

P, Q, R, S, T, V and J are sitting around a circle facing the centre. S is not an immediate neighbor of V. S is second to the right of T, Who is second to the right of Q. R is third to the right of J and second to the left of P?

94. Who is on the immediate right of Q? a) S b) R c) V d) None of these
95. How many of them are there between Q and S?
 a) 2 only b) 3 only c) 4 only d) 2 or 3 only e) None of these
96. Who among the following is sitting between V and R?
 a) Q b) J c) T d) S e) None of these

97. Ordering of words

- A) In the village
 B) Have ensured that children can learn dance
 C) Without travelling all the way
 D) To expensive dance academies located in the city
 a) CBAD b) ABCD c) DCBA d) CABD

98. People

- A) this hospital B) come to
 C) from different cities D) for medicine and treatment a) DABC b) BADC c) ADBC d) CBAD

99. The shopkeeper

- A) Whom he had cheated B) did not listen to the
 C) Who weight less D) Protests of customer. a) BDCA b) CBAD c) CBDA d) BDCA

100. An advertisement in the newspaper said that

- A) fully furnished apartments B) air-conditioned
 C) are available for D) the gentlemen of taste a) ABCD b) DCBA c) BCDA d) BACD

