

PRACTICE QUESTIONS

1. Total number of four digit odd numbers that can be formed using 0,1,2,3,5,7 (using repetition allowed) are

- (a) 216 (b) 375 (c) 400 (d) 720

2. There are five historical monuments, 6 gardens & 7 shopping malls in the city. In how many ways a tourist can visit the city, if he visits at least one shopping mall?

- (a) $2^5 \cdot 2^6 \cdot (2^7 - 1)$ (b) $2^4 \cdot 2^6 \cdot (2^7 - 1)$
(c) $2^5 \cdot 2^6 \cdot (2^6 - 1)$ (d) none of these

3. Number of 5 digit numbers that can be made using three digits 1 & 2 and in which at least one digit is different.

- (a) 30 (b) 25 (c) 28 (d) 31

4. The total number of ways of selecting six coins out of 20 one rupee coins, 10 fifty paisa coins & 7 twenty five paisa coins is

- (a) ${}^{37}C_6$ (b) 56 (c) 28 (d) 29

5. The number of ways in which four letters of the word MATHEMATICS can be arranged is given by

- (a) 136 (b) 192 (c) 1680 (d) 789

6. Number of 6 digit numbers that can be made with the digits 1,2,3 & 4 and having exactly two pairs of digits is

- (a) 978 (b) 1801 (c) 1080 (d) 789

7. In an examination there are three multiple choice questions and each question has 4 choices. Number of ways in which a student can fail to get all answers correct is

- (a) 11 (b) 12 (c) 27 (d) 63

8. How many numbers lying between 500 & 600 can be formed with the help of the digits 1,2,3,4,5,6 when the digits are not to be repeated?

- (a) 20 (b) 40 (c) 60 (d) 80

9. A father with 8 children takes them 3 at a time to the zoological garden, as often as he can without taking the same 3 children together more than once. The number of times he will go to the garden is

- (a) 56 (b) 100 (c) 112 (d) none of these

PERMUTATIONS & COMBINATIONS

10. A boy has 3 library tickets and 8 books of his interest in the library. Of these 8, he does not want to borrow Mathematics Part II, unless Mathematics Part I is also borrowed. In how many ways can he choose the three books to be borrowed?

- (a) 40 (b) 45 (c) 42 (d) 41

11. Number of words from the letters of the word BHARAT in which B & H will never come together is

- (a) 210 (b) 240 (c) 422 (d) 400

12. How many different nine digits numbers can be formed from the number 223355888 by rearranging its digits so that the odd digits occupy even positions?

- (a) 16 (b) 36 (c) 60 (d) 180

13. If the letters of the word RACHIT are arranged in all possible ways as listed in dictionary. Then what is the rank of the word RACHIT?

- (a) 479 (b) 480 (c) 481 (d) 482

14. If a man and his wife enter in a bus, in which five seats are vacant, then the number of different ways in which they can be seated is

- (a) 2 (b) 5 (c) 20 (d) 40

15. Five balls of different colours are to be placed in three boxes of different sizes. Each box can hold all five balls. In how many ways can we place the balls so that no box remains empty?

- (a) 50 (b) 100 (c) 150 (d) 200

16. Ten persons amongst whom are A,B and C to speak at a function. The number of ways in which it can be done if A wants to speak before B & B wants to speak before C is

- (a) $\frac{10!}{6}$ (b) $3! 7!$

- (c) ${}^{10}C_3 \cdot 7!$ (d) None of these

17. If eleven members of a committee sit on a round table so that the President & Secretary always sit together, then the number of arrangements is

- (a) $10! \times 2$ (b) $10!$
(c) $9! \times 2$ (d) $11! \times 2!$

Practice Combinations And Permutations Holt

Terry C. Jones



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