

NDA Maths – Permutations and Combinations

Exam Duration: 45 Mins

Total Questions : 25

1) The values of ${}^{75}P_2$ ${}^{75}P_2$ is :

- (a) 2775 (b) 150 (c) 5550 (d) None of these

2) How many 4-letter words with or without meaning, can be formed out of the letters of the word, 'LOGARITHMS', if repetition of letters is not allowed ?

- (a) 40 (b) 400 (c) 5040 (d) 2520

3) How many words with or without meaning, can be formed by using all the letters of the word, 'DELHI', using each letter exactly once ?

- (a) 10 (b) 25 (c) 60 (d) 120

4) In how many ways can the letters of the word 'APPLE' be arranged

- (a) 720 (b) 120 (c) 60 (d) 180 (e) none of these

5) The how many ways can the letters of the word 'LEADER' be arranged?

- (a) 72 (b) 144 (c) 360 (d) 720 (e) None of these

6) In how many different ways can the letters of the word 'RUMOUR' be arranged ?

- (a) 180 (b) 90 (c) 30 (d) 720 (e) None of these

7) How many arrangement can be made out of the letters of the word 'ENGINEERING' ?

- (a) 277200 (b) 92400 (c) 69300 (d) 23100 (e) None of these

8) How many words can be formed from the letters of the word 'SIGNATURE' so that the vowels always come together ?

- (a) 720 (b) 1440 (c) 2880 (d) 3600 (e) 17280

9) In how many different ways can the letters of the word 'OPTICAL' be arranged so that the vowels always come together ?

- (a) 120 (b) 720 (c) 4320 (d) 2160 (e) None of these

10) In how many different ways can the letters of the word 'SOFTWARE' be arranged such a way that the vowels always come together ?

- (a) 120 (b) 360 (c) 1440 (d) 13440 (e) 720