# 108 Days Online Coaching Day (23)~28/01/2021, THURSDAY

PERMUTATION & COMBINATION



SAI EDUCATION
KERALA
(A Complete Solution For All Competitive Examinations)

NAME OF THE CANDIDATE *

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PLACE OF THE CANDIDATE *

KANNUR ▼

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PLEASE WATCH THE ONLINE CLASSES CAREFULLY AND NOTE DOWN IT IN YOUR DIARY BEFORE SENDING THE ANSWERS

Q.1 . In an examination, a candidate is required to pass all five different subjects. The number of ways he can fail is: *    1 point

- ⦿ 31
- ◯ 32
- ◯ 30
- ◯ 29

Q.2. In how many ways can you rearrange the word JUMBLE such that the rearranged word starts with a vowel? *    1 point

- ◯ 160
- ⦿ 240
- ◯ 60
- ◯ 320

Q.3. In how many different ways can the letters of the word 'LEADING' be arranged in such a way that the vowels always come together? *    1 point

- ◯ 5040
- ◯ 480
- ◯ 360
- ⦿ 720

**Q.4. . 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? ***  1 point

- ○ 5200
- ◉ 5040
- ○ 5060
- ○ 5080

**Q.5. In how many different ways can the letters of the word 'MATHEMATICS' be arranged so that the vowels always come together? ***  1 point

- ○ 10080
- ○ 4989600
- ◉ 120960
- ○ None of these

**Q.6. In how many different ways can the letters of the word 'OPTICAL' be arranged so that the vowels always come together? ***  1 point

- ○ 120
- ○ 4320
- ○ 2160
- ◉ 720

**Q.7.** In how many different ways can the letters of the word 'CORPORATION' be arranged so that the vowels always come together? * — 1 point

- ⦿ 50400
- ◯ 42000
- ◯ 47200
- ◯ 48000

**Q.8.** In how many different ways can the letters of the word 'DETAIL' be arranged such that the vowels must occupy only the odd positions? * — 1 point

- ⦿ 36
- ◯ 64
- ◯ 120
- ◯ 86

**Q .9:** 4 boys and 2 girls are to be seated in a row such a way that 2 girls are always together.In how many different way can they be seated? * — 1 point

- ◯ 210
- ⦿ 240
- ◯ 250
- ◯ 260

Q .10: How many words can be formed by using all letters of the word 'BIHAR'? *    1 point

○ 720

○ 60

◉ 120

○ 24

Q .11: *    1 point

What is the value of $^{100}P_2$ ?

○ 12000

◉ 9900

○ 5600

○ 9801

Q 12: In how many different ways can the letters of the word 'RUMOUR' be arranged?    1 point
*

○ 128

○ 160

◉ 180

○ 148

**Q .13 . In how many ways can three boys can be seated on five chairs? *** 1 point

○ 80

● 60

○ 30

○ 120

**Q 14: There are 6 persons in an office. A group consisting of 3 persons has to be formed. In how many ways can the group be formed? *** 1 point

● 20

○ 10

○ 30

○ 40

**Q 15: A coin is tossed 3 times. Find out the number of possible outcomes *** 1 point

● 8

○ 10

○ 2

○ 1

**Q .16 . In how many different ways can the letters of the word 'JUDGE' be arranged such that the vowels always come together? *** 1 point

- ○ 32
- ◉ 48
- ○ 64
- ○ 88

**Q 17: Using all the letters of the word 'THURSDAY', how many different words can be formed? *** 1 point

- ○ 7
- ○ 7!
- ○ 8
- ◉ 8!

**Q 18 . Find the number of words, with or without meaning, that can be formed with the letters of the word 'INDIA'. *** 1 point

- ○ 50
- ○ 30
- ○ 120
- ◉ 60

## Q 19: How many different words can be formed with the letters of the word 'SUPER' such that the vowels always come together? *     1 point

- ● 48
- ○ 56
- ○ 36
- ○ 64

## Q 20: Solve the following *     1 point

i) $^{30}P_2$

ii) $^{30}C_2$

- ● 870, 435
- ○ 435, 870
- ○ 870, 470
- ○ 435, 835

## THANK YOU