

# ONLINE COACHING DAY 16 (17-09-19) PERMUTATION AND COMBINATION

KERALA PSC SPECIAL



NAME OF THE CANDIDATE \*

M-2 ▼

PLACE \*

Thrissur ▼

WHAT'S APP NUMBER (JOINED IN SAI EDUCATION ONLINE COACHING PLATFORM GROUP) \*

XXXXX

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Questions

Please watch the online videos (1-4)

[https://youtu.be/ARZp\\_eXejMg](https://youtu.be/ARZp_eXejMg)

<https://youtu.be/vKPpHL-wAFk>

<https://youtu.be/pnAZpA8wXgw>

<https://youtu.be/qwPWPB-6Lck>

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

1 point

None of these

48

32

64

2. How many words can be formed by using all letters of the word 'BIHAR'? \*

1 point

720

24

120

60

3. How many arrangements can be made out of the letters of the word 'ENGINEERING' ? \*

1 point

924000

277200

182000

None of these

4. How many 3 digit numbers can be formed from the digits 2, 3, 5, 6, 7 and 9 which are divisible by 5 and none of the digits is repeated? \*

1 point

- 20
- 16
- 8
- 24

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

1 point

- 720
- 24
- 120
- None of these

6. What is the value of  ${}^{100}P_2$  ? \*

1 point

- 9801
- 12000
- 5600
- 9900

7. In how many different ways can the letters of the word 'RUMOUR' be arranged? \*

1 point

- 128
- 360
- 180
- None of these

8. There are 6 periods in each working day of a school. In how many ways can one organize 5 subjects such that each subject is allowed at least one period? \*

1 point

- 3200
- 1800
- 3600
- None of these

9. How many 6 digit telephone numbers can be formed if each number starts with 35 and no digit appears more than once? \*

1 point

- 720
- 360
- 1420
- 1680

10. An event manager has ten patterns of chairs and eight patterns of tables. In how many ways can he make a pair of table and chair? \*

1 point

- 100
- 80
- 110
- 64

11. 25 buses are running between two places P and Q. In how many ways can a person go from P to Q and return by a different bus? \*

- 600
- 625
- 576
- None of these

12. A box contains 4 red, 3 white and 2 blue balls. Three balls are drawn at random. Find out the number of ways of selecting the balls of different colours? \*

- 62
- 48
- 12
- 24

13. A question paper has two parts P and Q, each containing 10 questions. If a student needs to choose 8 from part P and 4 from part Q, in how many ways can he do that? \*

- 6020
- 1200
- 9450
- None of these

14. In how many different ways can 5 girls and 5 boys form a circle such that the boys and the girls alternate? \*

- 2880
- 1400
- 1200
- 3212

15. Find out the number of ways in which 6 rings of different types can be worn in 3 fingers? \*

1 point

- 120
- 720
- 125
- 729

16. In how many ways can 5 man draw water from 5 taps if no tap can be used more than once? \*

1 point

- 720
- 120
- 60
- None of these

17. How many two digit numbers can be generated using the digits 1,2,3,4 without repeating any digit? \*

1 point

- 4
- 10
- 12
- 16

18. There are three places P, Q and R such that 3 roads connects P and Q and 4 roads connects Q and R. In how many ways can one travel from P to R? \*

1 point

- 8
- 10
- 12
- 14

19. There are 10 women and 15 men in an office. In how many ways can a person can be selected? \* 1 point

- 25
- 50
- 150
- None of these

20. There are 10 women and 15 men in an office. In how many ways a team of a man and a woman can be selected? \* 1 point

- 25
- 50
- 150
- None of these

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

- 30
- 80
- 60
- 180

22. 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

- 30
- 10
- 20
- 40

23. In how many ways can 7 boys be seated in a circular order? \*

1 point

- 60
- 120
- 5040
- 720

24. Arun wants to send invitation letter to his 7 friends. In how many ways can he send the invitation letter if he has 4 servants to carry the invitation letters? \*

1 point

- 16384
- 10801
- 14152
- 12308

25. How many numbers, between 100 and 1000, can be formed with the digits 3,4,5,0,6,7 ? (repetition of digits is not allowed) \*

1 point

- 142
- 120
- 100
- 80

Thank You!!

