

108 DAYS ONLINE COACHING DAY(23) -6/08/2020 THURSDAY

PERMUTATION AND COMBINATION(1-2)



Name of the candidate *

M3

Place of the candidate *

Thiruvananthapuram

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

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Please watch the following videos and answer the following questions

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

1.How many ways can we write TOPIC without repetition of the letters *

1 point

- 90
- 1320
- 120
- 130

2.In how many ways can the letter of the word 'SUN' can be arranged without repeating the letters. *

1 point

- 3
- 2
- 6
- 1

3. In how many ways can the letters of HOME be arranged without repeating the letters *

1 point

- 4
- 24
- 6
- 15

4. In how many ways can the letters of HOME be arranged with vowels together *

1 point

- 12
- 2
- 6
- 3

5. In how many ways can the letters of HOME be arranged without vowels together *

1 point

- 12
- 24
- 36
- 6

6. In how many ways can the letters of COFFEE be arranged without repeating the letters 1 point

*

- 120
- 180
- 100
- 110

7. In how many ways can the letters of the word COFFEE can be arranged with vowels together 1 point

*

- 36
- 24
- 48
- 12

8. In how many ways can the letters of EQUATION be arranged without repeating the letters 1 point

*

- 6720
- 1680
- 40320
- 5040

9. In how many ways can the letters of DIRECTOR be arranged *

1 point

- 1680
- 1336
- 20160
- 2160

10. In how many ways can the letters of EQUATION be arranged if it starts with 'Q' *

1 point

- 40320
- 5040
- 2160
- 20160

11. In how many ways can the letters of DIRECTOR be arranged without vowels together *

1 point

- 20160
- 2160
- 18000
- 1800

12. 4 boys and 2 girls are to be seated in a row in such a way that two girls are always together. In how many different ways can they be seated *

1 point

- 120
- 240
- 60
- 480

13. 4 boys and 2 girls are to be seated in different ways in a row is *

1 point

- 240
- 720
- 120
- 360

14. 4 boys and 2 girls are to be seated in a row in such a way that boys and girls are never seated together. *

1 point

- 720
- 240
- 360
- 480

15.4 boys and 2 girls are to be seated in a row in such a way that all boys are seated together *

1 point

- 12
- 24
- 36
- 144

16.4 boys and 2 girls are to be seated in a row in such a way that all the boys and all the girls are seated together. *

1 point

- 69
- 72
- 42
- 96

17.5 boys and 4 girls are to be seated in a row in such a way that all boys are seated alternatively *

1 point

- 2880
- 280
- 208
- 2008

18. In how many ways can the letters of the word 'LEADER' be arranged? *

1 point

- A. 72
- B. 144
- C. 360
- D. 720
- E. None of these

19. 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

- A. 5
- B. 10
- C. 15
- D. 20

20. In how many ways a committee, consisting of 5 men and 6 women can be formed from 8 men and 10 women? *

1 point

- A. 266
- B. 5040
- C. 11760
- D. 86400
- E. None of these

21. Evaluate $30!/28!$ *

1 point

- 970
- 870
- 770
- 670
- option 1

22. In the word RAINBOW, how many words begin with R and ends with W? *

1 point

- (a) 120
- (b) 240
- (c) 180
- (d) 360

23. In the word RAINBOW, how many words are there in which I and O are never together? *

1 point

- (a) 1440
- (b) 720
- (c) 3600
- (d) None of these

24. A boy has nine trousers and 12 shirts. In how many different ways can he select a trouser and a shirt? *

1 point

- A. 21
- B. 12
- C. 9
- D. 108

25. A college has 10 basketball players. A 5-member team and a captain will be selected out of these 10 players. How many different selections can be made? *

1 point

- A. 1260
- B. 1400
- C. 1250
- D. 1600

Thankyou...

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