

Discrete Mathematics Quiz Unit 3

* Required

* This form will record your name, please fill your name.

1. Roll Number *

2. Name *

3. Class *

- ☐ SE First Shift
- ☐ SE Second Shift

4. A box contains 2 white balls, 3 black balls and 4 red balls. In how many ways can 3 balls be drawn from the box, if at least one black ball is to be included in the draw? *
(2 Points)
- ☐ 32
- ☐ 48
- ☐ 64
- ☐ 96
5. 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? *
(2 Points)
- ☐ 5
- ☐ 10
- ☐ 15
- ☐ 20
6. From a group of 7 men and 6 women, five persons are to be selected to form a committee so that at least 3 men are there on the committee. In how many ways can it be done? *
(2 Points)
- ☐ 564
- ☐ 645
- ☐ 735
- ☐ 756

7. A bank has 6 digit account number with no repetition of digits within a account number. The first and last digit of the account numbers is fixed to be 4 and 7. How many such account numbers are possible? *

(2 Points)

☐ 10080

☐ 5040

☐ 890

☐ 1680

8. In how many ways can we arrange the word 'FUZZTONE' so that all the vowels come together? *

(1 Point)

☐ 1440

☐ 6

☐ 2160

☐ 4320

9. In a room there are 2 green chairs, 3 yellow chairs and 4 blue chairs. In how many ways can Raj choose 3 chairs so that at least one yellow chair is included? *

(1 Point)

☐ 3

☐ 30

☐ 64

☐ 84

10. On a railway line there are 20 stops. A ticket is needed to travel between any 2 stops. How many different tickets would the government need to prepare to cater to all possibilities? *

(1 Point)

☐ 760

☐ 190

☐ 380

☐ 72

11. Without repetition, using digits 2, 3, 4, 5, 6, 8 and 0, how many numbers can be made which lie between 500 and 1000? *

(1 Point)

☐ 70

☐ 60

☐ 90

☐ 147

12. A trekking group is to be formed having 6 members. They are to be selected from 3 girls, 4 boys and 5 teachers. In how many ways can the group be formed so that there are 3 teachers and 3 boys or 2 girls and 4 teachers? *

(1 Point)

☐ 55

☐ 90

☐ 27

☐ 144

13. There are 8 routes from London to Delhi. And there are 6 routes from Delhi to Tokyo. In how many different ways can Raj travel from London to Tokyo via Delhi? *
- (1 Point)
- ☐ 100
 - ☐ 48
 - ☐ 24
 - ☐ 12
14. In an examination there are 3 multiple choice questions and each question has 4 choices. The number of ways in which a student can fail to get all answers correct is ? *
- (1 Point)
- ☐ 11
 - ☐ 27
 - ☐ 63
 - ☐ 84
15. In a crossword puzzle there are 2 solutions to each of the 3 given places and 3 solutions to 1 other place. How many different solutions can be set in ? *
- (1 Point)
- ☐ 12
 - ☐ 24
 - ☐ 36
 - ☐ 48

16. A gentleman has got 6 sorts of note papers, 7 different ink-stands and 4 different pens. In how many ways can he begin to write a letter ? *

(1 Point)

☐ 168

☐ 176

☐ 186

☐ 196

17. The number of different permutations of the word BANANA is *

(1 Point)

☐ 720

☐ 120

☐ 60

☐ 180

18. Out of 7 consonants and 4 vowels, how many words of 3 consonants and 2 vowels can be formed? *

(1 Point)

☐ 25200

☐ 120

☐ 21400

☐ 1050

19. In how many different ways can the letters of the word 'CORPORATION' be arranged so that the vowels always come together? *

(1 Point)

- ☐ 810
- ☐ 1440
- ☐ 2880
- ☐ 50400

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