

ONLINE COACHING - DAY 100 (20/06/2020 - SATURDAY)

Total points 25/25 ?

TOPIC : Probability

0 of 0 points



Name of the Candidate *

M5

Place of the Candidate *

Thrissur



WHATS APP NUMBER (JOINED IN SAI EDUCATION ONLINE COACHING PLATFORM GROUP) *

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Please watch the following videos and answer the following questions

25 of 25 points

https://youtu.be/1ETcl4_wEtg
<https://youtu.be/JiQA8LgBqU8>

✓ 1. In a toss of one coin, find the probability of head? *

1/1

$1/2$



$2/3$

$1/8$

$2/8$

✓ 2. In a simultaneous toss of 2 coins, find the probability of 2 tails? *

1/1

$2/4$

$1/4$



$3/4$



2/8

✓ 3. In a simultaneous toss of 3 coins, find the probability of all are heads? * 1/1

1/8



2/8

3/8

5/8

✓ 4. In a simultaneous toss of 3 coins, find the probability of exactly 2 heads? * 1/1

1/8

2/8

3/8



2/3

✓ 5. In a single throw of 2 dices, find the probability of getting a total of 3 or 5? *

1/7

1/6



3/8



3/7

2/7

✓ 6. In a single throw of 2 dices, find the probability of getting a total of 12 * 1/1

1/36



1/8

7/36

9/35

✓ 7. One card is drawn at random from the well shuffled pack of 52 cards. 1/1
What is the probability of picking a black card? *

2/3

1/52

1/2



3/26

✓ 8. What is the probability of picking a ace of spades or the jack of diamond? * 1/1

1/13

2/13

5/13





1/26



✓ 9. What is the probability that the card is either a red card or a king? * 1/1

7/13



8/13

1/13

6/13

✓ 10. A bag contains 6 red balls and 4 yellow balls. 4 balls are picked at random. What is the probability that 3 are red and 1 is yellow? * 1/1

8/26

7/21

8/21



9/26

✓ 11. A bag contains 6 red balls and 4 yellow balls. 2 balls are picked at random. What is the probability that either 2 are red or 2 are yellow? * 1/1

8/30

9/15

7/15





15/8

✓ 12. A bag contains 6 red balls and 4 yellow balls. 3 balls are picked at random. What is the probability that none is red? * 1/1

7/30

1/30

8/30

1/3



✓ 13. A bag contains 4 white balls and 2 black balls. Another bag contains 3 white and 5 black balls. If one ball is drawn from each bag. Then the probability that both the balls are black is? * 1/1

7/20

19/26

8/20

5/24



✓ 14. A basket contains 3 blue and 4 red balls. If 3 balls are drawn at random $\frac{1}{1}$ from the basket, what is the probability that all the 3 are either blue or red? *

a)1

b) $\frac{1}{7}$

c) $\frac{3}{14}$

d) $\frac{3}{8}$



✓ 15. A bag contain 13 white and 7 black balls. 2 balls drawn at random. $\frac{1}{1}$ What is the probability that they are of the same color? *

$\frac{41}{190}$

$\frac{21}{190}$

$\frac{59}{190}$

$\frac{99}{190}$



Study the given information carefully to answer the questions that follow(16-20). An urn contains 4 green, 5 blue, 2 red and 3 yellow marbles.



✓ 16. If 2 marbles are drawn at random. What is the probability that both are red or at least one is red? * 1/1

26/93

2/7

25/91



135/193

✓ 17. If 3 marbles are drawn at random, what is the probability that at least one is yellow ? * 1/1

1/5

199/364



135/324

5/9

✓ 18. If 8 marbles are drawn at random, what is the probability that there are equal number of marbles of each color? * 1/1

3/8

351/738



60/1001



1/1011

✓ 19. If 3 marbles are drawn at random, what is the probability that none is green? * 1/1

3/8

273/748

30/91



41/91

✓ 20. If 4 marbles are drawn at random, what is the probability that 2 are blue and 2 are red * 1/1

10/1001



7/17

15/384

3/5

Study the given information carefully to answer the questions that follow(21-25). An urn contains 3 red, 6 blue, 2 green, and 4 yellow marbles .



✓ 21. If 2 marbles are picked at random, what is the probability that both are green? * 1/1

- 2/15
- 1/15
- 2/7
- 1/105



✓ 22. If 3 marbles are picked at random, what is the probability that 2 are blue and 1 is yellow? * 1/1

- 2/15
- 6/91
- 12/91
- 3/15



✓ 23. If 4 marbles are picked at random, what is the probability that at least one is yellow? * 1/1

- 91/123
- 69/91



125/143

1/4

✓ 24. If 2 marbles are picked at random, what is the probability that either both are red or both are green? * 1/1

3/5

4/105



2/7

5/91

✓ 25. If 4 marbles are picked at random, what is the probability that one is green, 2 are blue, and one is red? * 1/1

6/91



4/15

17/280

11/15

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