ONLINE COACHING DAY 107 (01-08-19) PROBABILITY

KERALA PSC SPECIAL

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

NAME OF THE CANDIDATE *

M-2

PLACE *

Thrissur

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

XXXXX

QUESTIONS

PLEASE WATCH THE ONLINE VIDEO

https://youtu.be/1ETcI4_wEtg
https://youtu.be/JiQA8LgBqU8

1. Tickets numbered 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5? * 1 point

- ○ 1/2
- ○ 2/5
- ○ 8/15
- ◉ 9/20

2. A bag contains 2 red, 3 green and 2 blue balls. Two balls are drawn at random. What is the probability that none of the balls drawn is blue? * 1 point

- ◉ 10/21
- ○ 11/21
- ○ 2/7
- ○ 5/7

3. In a box, there are 8 red, 7 blue and 6 green balls. One ball is picked up randomly. What is the probability that it is neither red nor green? * 1 point

- ◉ 1/3
- ○ 3/4
- ○ 7/19
- ○ 8/21

4. What is the probability of getting a sum 9 from two throws of a dice? * 1 point

- ○ 1/6
- ○ 1/8
- ◉ 1/9
- ○ 1/12

5. Three unbiased coins are tossed. What is the probability of getting at most two heads? *

- ○ 3/4
- ○ 1/4
- ○ 3/8
- ◉ 7/8

6. Two dice are thrown simultaneously. What is the probability of getting two numbers whose product is even? *

- ○ 1/2
- ◉ 3/4
- ○ 3/8
- ○ 5/16

7. In a class, there are 15 boys and 10 girls. Three students are selected at random. The probability that 1 girl and 2 boys are selected, is: *

- ◉ 21/46
- ○ 25/117
- ○ 1/50
- ○ 3/25

8. In a lottery, there are 10 prizes and 25 blanks. A lottery is drawn at random. What is the probability of getting a prize? *

- ○ 1/10
- ○ 2/5
- ◉ 2/7
- ○ 5/7

9. From a pack of 52 cards, two cards are drawn together at random. What is the probability of both the cards being kings? *

- ◯ 1/15
- ◯ 25/57
- ◯ 35/256
- ⦿ 1/221

10. Two dice are tossed. The probability that the total score is a prime number is: *

- ◯ 1/6
- ⦿ 5/12
- ◯ 1/2
- ◯ 7/9

11. A card is drawn from a pack of 52 cards. The probability of getting a queen of club or a king of heart is: *

- ◯ 1/13
- ◯ 2/13
- ⦿ 1/26
- ◯ 1/52

12. A bag contains 4 white, 5 red and 6 blue balls. Three balls are drawn at random from the bag. The probability that all of them are red, is: *

- ◯ 1/22
- ◯ 3/22
- ⦿ 2/91
- ◯ 2/77

13. Two cards are drawn together from a pack of 52 cards. The probability that one is a spade and one is a heart, is: *

1 point

○ 3/20

○ 29/34

○ 47/100

◉ 13/102

14. One card is drawn at random from a pack of 52 cards. What is the probability that the card drawn is a face card (Jack, Queen and King only)? *

1 point

○ 1/13

◉ 3/13

○ 1/4

○ 9/52

15. A bag contains 6 black and 8 white balls. One ball is drawn at random. What is the probability that the ball drawn is white? *

1 point

○ 3/4

◉ 4/7

○ 1/8

○ 3/7

16. Four dice are thrown simultaneously. Find the probability that all of them show the same face. *

1 point

◉ 1/216

○ 1/36

○ 4/216

○ 3/216

17. A bag contains 12 white and 18 black balls. Two balls are drawn in succession without replacement.What is the probability that first is white and second is black? * 1 point

○ 18/145

○ 18/29

○ 36/135

◉ 36/145

18. What is the probability that a number selected from numbers 1,2,3,...,30, is prime number, when each of the given numbers is equally likely to be selected? * 1 point

○ 9/30

○ 8/30

◉ 10/30

○ 11/30

19. A bag contains 21 toys numbered 1 to 21. A toy is drawn and then another toy is drawn without replacement.Find the probability that both toys will show even numbers. * 1 point

○ 5/21

◉ 9/42

○ 11/42

○ 4/21

20. A dice is thrown 3 times .what is the probability that atleast one head is obtained? * 1 point

◉ 7/8

○ 1/8

○ 8/7

○ 2/7

21. Find the probability of getting a numbered card when a card is drawn from the pack of 52 cards. *

○ 9/52

◉ 9/13

○ 6/52

○ 13/52

22. There are 5 green 7 red balls. Two balls are selected one by one without replacement. Find the probability that first is green and second is red. *

○ 7/132

○ 5/12

○ 7/130

◉ 35/132

23. A die is rolled, find the probability that an even number is obtained. *

○ 2/3

◉ 1/2

○ 3/4

○ 5/6

24. Two coins are tossed, find the probability that two heads are obtained. Note: Each coin has two possible outcomes H (heads) and T (Tails). *

○ 1/2

○ 2/3

◉ 1/4

○ 3/4

25. A die is rolled and a coin is tossed, find the probability that the die shows an odd number and the coin shows a head. *

○ 3/8

⦿ 1/4

○ 5/12

○ 1/6

Thank You!!!