PROBABILITY

- KOUSTAV

CONCEPT

1. A card is drawn from a well-shuffled pack of cards. What is the probability of getting a spade?

Ans: _____

2. A card is drawn from a well-shuffled pack of cards. What is the probability of getting a spade or a diamond?

Ans: _____

3. Two cards are drawn from a well-shuffled pack of cards. What is the probability that the first is a spade and the second is a diamond?

Ans: _____

4. Two cards are drawn from a well-shuffled pack of cards. What is the probability of getting a spade and a diamond?

Ans: _____

5. Two bottles are randomly selected from a stack of 10 bottles in which 5 are blue, 3 are green, and 2 are yellow. What is the probability that the 1st bottle selected is blue and the 2nd is green?

Ans: _____

6. Three bottles are randomly selected from a stack of 12 bottles in which 3 are black, 4 are white, and 5 are red. What is the probability that all 3 bottles selected are of different colour?

Ans: _____

7. Two dice are rolled. What is the probability that the sum of the results is 5?

Ans: _____

8. Two dice are rolled. What is the probability that the sum of the results is less than or equal to 5?

Ans: _____

9. A fair coin is tossed 6 times. What is the probability that heads turns up exactly 2 times?

Ans: _____

10. A bag contains three differently coloured bottles, which include 3 black, 4 white, and 5 red. If 3 bottles are picked randomly from the bag, what is the probability that:

i. All the three are black? Ans: _____

ii. None of them are white? Ans: _____

iii. All of them are not white? Ans: _____

11. A committee of 10 people needs to be seated on 10 chairs in a straight line. What is the probability that 3 particular people always sit together?

Ans: _____

12. The probability of getting heads in both trials when a balanced coin is tossed twice will be?

A. 1/4 B. 1/2 C. 1 D. 3/4

13. A card is drawn from a well-shuffled pack of cards. The probability of getting a queen of club or king of the heart is?

A. 1/52 B. 1/26 C. 1/13 D. None of these

14. If the probability that A will live 15 years is 7/8 and that B will live 15 years is 9/10, then what is the probability that both will live 15 years?

A. 1/20 B. 63/80 C. 1/5 D. None of these

15. The probability of drawing a red card from a deck of playing cards is

A. 2/18 B. 1/13 C. 1/4 D. 1/2

16. Two dice are rolled. What is the probability that the sum of the numbers appeared on them is 8 or 11?

A. 1/6 B. 1/18 C. 1/9 D. 7/36

17. A bag contains 8 red and 5 white balls. 2 balls are drawn at random. What is the probability that both are white?

A. 5/16 B. 2/13 C. 3/26 D. 5/39

18. Three unbiased coins are tossed. What is the probability of getting at most 2 heads?

A. 1/4 B. 3/8 C. 7/8 D. 1/2

19. A brother and sister appear for an interview against two vacant posts in an office. The probability of the brother's selection is 1/5th and that of the sister's selections is 1/3rd. What is the probability that only one of them is selected?

A. 1/5 B. 2/5 C. 1/3 D. 2/3

20. The probability that a card drawn from a pack of 52 cards will be a diamond or a king is?

A. 1/13 B. 4/13 C. 1/52 D. 2/13

ANSWER KEY – PROBABILITY

QUESTION	ANSWER	QUESTION	ANSWER
1	1/4	11	1/15
2	1/2	12	A
3	13/204	13	B
4	13/102	14	B
5	1/6	15	D
6	3/11	16	D
7	1/9	17	D
8	5/18	18	C
9	15/64	19	B
10	1/220, 14/55, 54/55	20	B