Probability

Q1. Three unbiased coins are tossed. What is the probability that at most one head occurs?

(a) 0.5 (b) 0.375 (c) 0.625 (d) None of these

Q2. An unbiased die is tossed. Find the probability of getting an even number.

(a) 0.3 (b) 0.5 (c) 0.75 (d) 0.80

Q3. Find the probability of getting a red card when a card is drawn from a well shuffled pack of cards.

(a) $\frac{1}{6}$ (b) $\frac{1}{4}$ (c) $\frac{1}{2}$ (d) 1

Q4. The tickets numbered from 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket has a number which is a multiple of 3 or 5?

(a) 9/20 (b) 9/24 (c) 9/27 (d) 9/30

Q5. In a bag, there are 8 red, 7 yellow and 6 green balls. If one ball is picked up at random, what is the probability that it is neither red nor green?

(a) ¼ (b) ½ (c) 1/5 (d) 1/3

Q6. A man throws two dice simultaneously on the floor. What is the probability of getting two numbers whose product is even?

(a) 3/2 (b) 5/4 (c) ½ (d) ¾

Q7. In a lottery, there are 5 prizes and 35 blanks. If a lottery is drawn at random what will be the probability of getting a prize?

(a) 1/5 (b) 1/6 (c) 1/7 (d) 1/8

Q8. 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?

(a) ¾ (b) 4/7 (c) 1/8 (d) 3/7

Q9. What is the probability of getting a sum 5 from two throws of a dice?

(a) 1/9 (b) 1/8 (c) 1/7 (d) 1/6

Q10. A man tossed two dice. What is the probability that the total score is a prime number?

(a) 5/12 (b) 5/14 (c) 5/20 (d) 5/24

Q11. A card is drawn from a pack of 52 cards. What is the probability of getting a king of heart or a queen of club?

(a) 1/22 (b) 1/24 (c) 1/26 (d) 1/28

Q12. Ram draws one card 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)?

(a) 3/13 (b) 3/15 (c) 3/17 (d) 3/19

Q13. What is the probability of getting a sum 9 from two throws of a dice?

(a) 1/6 (b) 1/8 (c) 1/9 (d) 1/12

Q14. In a lottery, there are 10 prizes and 25 blanks. A lottery is drawn at random. What is the probability of getting a prize?

(a) 1/10 (b) 2/5 (c) 2/7 (d) 5/7

Q15. A bag contains 6 white and 4 black balls. Two balls are drawn at random from the bag. Find the probability that both the balls are of the same colour.

(a) $\frac{8}{15}$ (b) $\frac{7}{15}$ (c) $\frac{11}{30}$ (d) None of these

Q16. From a bag containing red and blue balls, 10 each, 2 balls are drawn at random. Find the probability that one of them is red and the other is blue.

(a) $\frac{10}{19}$ (b) $\frac{9}{19}$ (c) $\frac{1}{5}$ (d) $\frac{5}{10}$

Q17. In a group of students, there are 15 boys and 10 girls. If three students are selected at random, what is the probability that 1 girl and 2 boys are selected?

(a) 21/46 (b) 21/36 (c) 21/26 (d) 21/56

Q18. Two cards are drawn together from a pack of 52 cards. The probability that one is a spade and one is a heart, is:

(a) 3/20 (b) 29/34 (c) 47/100 (d) 13/102

Q19. A man draws two cards together from a pack of 52 cards. What is the probability of both the cards being kings?

(a) 1/111 (b) 1/121 (c) 1/221 (d) 1/321

Q20. A box contains 4 white, 5 red, and 6 blue balls. If three balls are drawn at random from the box, what is the probability that all of them are blue?

(a) 4/91 (b) 4/81 (c) 4/71 (d) 4/61

Q21. From a pack of 52 cards, two cards are drawn together at random. What is the probability of both the cards being kings?

(a) 1/15 (b) 25/57 (c) 35/256 (d) 1/221

Q22. 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:

(a) 1/22 (b) 3/22 (c) 2/91 (d) 2/77

Q23. A problem is given to three students whose chances of solving it are 1/2, 1/3 and 1/4 respectively. What is the probability that the problem will be solved?

(a) ¼ (b) ½ (c) ¾ (d) 7/12

Answer key

1	A	6	D	11	C	16	A	21	D
2	B	7	D	12	A	17	A	22	C
3	C	8	B	13	C	18	D	23	C
4	A	9	A	14	C	19	C	24	
5	D	10	A	15	B	20	A	25	