

Section A (10 Marks)

1. Define the following terms:
 - a) Experiment
 - b) Sample Space
 - c) Event
 - d) Probability of an Event
 - e) Equally Likely Outcomes
2. A coin is tossed once. What is the probability of getting a head?
3. A die is rolled once. What is the probability of getting a number less than 3?
4. Two coins are tossed simultaneously. What is the probability of getting two heads?
5. A bag contains 5 red balls and 3 green balls. A ball is drawn at random from the bag. What is the probability of drawing a green ball?

Section B (10 Marks)

6. A box contains 90 discs, numbered from 1 to 90. One disc is drawn at random from the box. Find the probability that it bears a number divisible by 5.
7. A bag contains 5 red balls and 8 white balls. Two balls are drawn at random from the bag without replacement. What is the probability that both balls are red?
8. A card is drawn at random from a well-shuffled deck of 52 cards. Find the probability that the card drawn is either a king or a queen.
9. A bag contains 4 red balls, 5 white balls, and 6 green balls. Three balls are drawn at random from the bag without replacement. What is the probability that all three balls are of different colors?
10. A box contains 5 red balls, 4 green balls, and 3 white balls. Two balls are drawn at random from the box without replacement. What is the probability that at least one ball is red?