**ASSIGNMENT (2020-21)**

**CLASS - X SUBJECT – MATHEMATICS**

**CH – 15 (PROBABILITY)**

1. What are the total outcomes when we throw three coins?

 (a) 4 (b) 5 (c) 8 (d) 7

1. The probability that a prime number selected at random from the numbers (1,2,3, ..........35) is :

 (a) 12/35 (b) 11/35 (c) 13/35 (d) none of these

1. The sum of the probability of an event and non event is :

 (a) 2 (b) 1 (c) 0 (d) none of these.

1. The following probabilities are given; choose the correct answer for that which is not possible.

 (a) 0.15 (b) 2/7 (c) 7/5 (d) none of these.

1. If three coins are tossed simultaneously, than the probability of getting at least two heads, is

 (a) ¼ (b) 3/8 (c) ½ (d) 1/8

1. Cards, marked with numbers 5 to 50, are placed in a box and mixed thoroughly. A card is drawn from the box at random. Find the probability that the number on the taken out card is: (i) a prime number less than 10. (ii) a number which is a perfect square.
2. Two dice are thrown simultaneously. What is the probability that

 (i) 5 will not come up on either of them? (ii) 5 will come up on at least one?

 (iii) 5 will come up at both dice?

1. From a well shuffled pack of playing cards, black jacks, black kings and black aces are removed. A card is then drawn from the pack. Find the probability of getting. (i) a red card (ii) not a diamond card.
2. A bag contains cards which are numbered from 2 to 90. A card is drawn at random from the bag. Find the probability that it bears. (i) a two-digit number (ii) a number which is a perfect square.
3. A die is thrown once. Find the probability of getting a number greater than 5.
4. Cards bearing numbers 3 to 20 are placed in a bag and mixed thoroughly. A card is taken out from the bag at random. What is the probability that the number on the card taken out is an even number?
5. Two friends were born in the year 2000. What is the probability that they have the same birthday?
6. A box contains cards marked with numbers 5 to 20. A card is drawn from the bag at random. Find the probability of getting a number which is a perfect square.
7. Two dice are thrown at the same time. Find the probability of getting different numbers on the dice.
8. Cards with numbers 2 to 101 are placed in a box. A card is selected a random. Find the probability that the card has a square number.