

X - Mathematics Assignment No-02 - Probability

- Q1. A bag contains 15 tickets bearing numbers 1, 2, 3, 4, 15. A ticket is drawn from the bag. Find the probability that it bears a prime no.
- Q2. A class of x has 20 girls and 15 boys. One student is selected at random. Find the probability that the selected student is a girl.
- Q3. In a leap year, find the probability that there are 53 Mondays in the year.
- Q4. A bag contains 25 cards numbered from 1 to 25. One card is drawn from the bag. Find the probability that this card has a number which is divisible by both 2 and 3.
- Q5. A card is drawn from a pack of cards. Find the probability that it is not a heart.

- Q6. A bag contains 20 stones numbered from 1 to 20. One stone is drawn from the bag. Find the probability that it bears a prime number.
- Q7. A card is drawn from a pack of cards. Find the probability that it is jack of spade.
- Q8. A die is thrown once. Find the probability of getting a number
 (i) greater than 2
 (ii) less than 6
- Q9. Two dice are thrown once. Find the probability that the sum of numbers appearing on the dice is 8
- Q10. A bag contains 5 red balls and some blue balls. If the probability of drawing a blue ball is double that of a red ball, find number of blue balls in the bag.

ANSWERS:-

(Q1) $\frac{2}{5}$	(Q4) $\frac{4}{25}$	(Q7) $\frac{1}{52}$	(Q9) $\frac{5}{36}$
(Q2) $\frac{4}{7}$	(Q5) $\frac{3}{4}$	(Q8) (i) $\frac{2}{3}$	(Q10) 10
(Q3) $\frac{2}{7}$	(Q6) $\frac{2}{5}$	(ii) $\frac{5}{6}$	