X- Mathematics Assignment No-01 - Probability

Q1 Write the sample space of

(i) Coin is tossed two times

(ii) " " " three times

(iii) Dice " " once

Q2. A Coin is tossed once. Find the probability of head, hence find the probability of tail.

Q3. A dice is tossed once. Find the probability of

(i) even number

(ii) odd number

(iii) Prime number

(iv) number divisible by 6

Q4. Two Coins are thrown once. Find the probability of

(i) two heads

(ii) one tail

Cont-Pg-2

Q5. A dice is tossed two times Find the probability of doublet.

Q6. A bag Contains 15 balls of two colours 7 White and 8 black. Find the probability of White ball.

Q7. A bag Contains 3 White, 4 black and 7 green marbles. A marble is drawn from the bag. Find the probability that it is not black.

Q8. A Card is drawn from a pack of Cards. Find the probability that it is a Card of club.

Q9. In a pack of Cards. Find the probability of face Cards

Q10. In a non-leap year. Find the probability of getting 53 Sundays.

ANSWERS:

(Q1) {HH, TT, HT, TH} (ii) {HHH, HTT, THT, TTH, TTT, HHT, HTH, THH} (iii) {1, 2, 3, 4, 5, 6} (Q2) $\frac{1}{2}, \frac{1}{2}$ (Q3) (i) $\frac{1}{2}$, (ii) $\frac{1}{2}$, (iii) $\frac{1}{2}$, (iv) $\frac{1}{6}$	(Q4) (i) $\frac{1}{4}$ (ii) $\frac{2}{4}$ (Q5) $\frac{1}{6}$ (Q6) $\frac{7}{15}$	(Q7) $\frac{10}{14}$ (Q8) $\frac{1}{4}$ (Q9) $\frac{12}{52}$ (Q10) $\frac{1}{7}$