**Aarambh Classes**

**Class X**

**Maths test**

**PROBABILITY**

**TIME : 1 hour**  **M.Marks : 20**

**1 mark question** :

1. A bag contains 5 red balls and n green balls .If the probability of drawing a green ball is three times that of ared ball ,then the value of n is :
2. 18 (b) 15 ( c) 10 (d) 2

2. The probability that a non leap year has 53 wednesdays is

(a) (b) (C) (d)

3. A girl calculates that the probbaility of her winning the first prize in a lottery is 0.08 .If 6000 tickets are sold ,how many tickets has she bought ?

(a)40 (b) 240 © 480 (d) 750

**2 mark questions :**

**4 .** If a fair coin is tossed twice ,find the probability of getting at most one head .

5. A jar contains 18 marbles .Some are red and others are yellow .If amarble is drawn at random from the jar ,the probability that it is red is .Find the number of yellow marbles in the jar .

6 . Cards numbered 7 to 40 were put in abox .Poonam selects a card at random .What is the probbaility that poonam selects a card which is a multiple of 7 ?

**3 marks questions :**

**7 .**  Two different dice are thrown together .Fin dthe probability that the numbers obtained

1. Have a sum less than 7
2. Have a product less than 16
3. Is a doublet of odd numbers .

8. A bag contains 20 balls out of which x balls are red .

1. If one ball is drawn at random from the bag ,find the probability that it is not red .
2. If 4 more red balls are put into the bag ,the probability of drawing a red ball will be times the probability of drawing a red ball in the first case .Find the value of x .

**5 marks questions :**

9 . All the black face cards are removed from a pack of 52 playing cards .The remaining cards are well shuffled and then a card is drawn at random .Find the probability of getting a

(I) face card (ii) red card ( iii) black card (iv) king