



Assignment

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Date: __ / __ / __

Name: _____

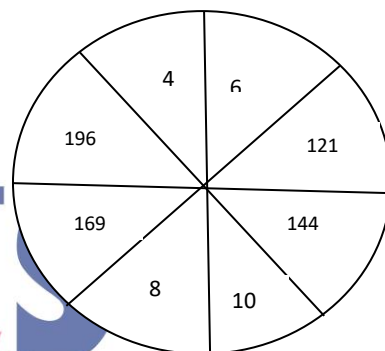
Max Marks: 25

Section- A (One Marks Each)

- 1 If n coins are tossed and 2 dice are rolled simultaneously, what will be the total number of outcomes?
- 2 Three friends A,B and C are playing a game. The probability that A wins is 0.4 and the probability that C wins is 0.3. What is the probability that B wins the game?
- 3 A bag contains 10 red, 20 blue and 30 green balls. A ball is picked at random. What is the probability that the ball is red or green?

Section-B (Two Marks Each)

- 4 If a ball is drawn from a bag containing balls numbered from 1 to 50. Find the probability of drawing a ball bearing a multiple of 3 and 5.
- 5 What is the probability that a leap year has 53 Sundays or 53 Mondays?
- 6 A die is rolled and a coin is tossed. What is the probability of getting a head and an odd number?
- 7 What is the probability that two persons have the same date of birth in February in a leap year?



- 8 The following spinner has 8 equally distributed parts. Find the probability of getting
 - a) A perfect square
 - b) A divisor of 3 and 11

Section-C (Three Marks Each)

- 9 Shilpa is taking fruits on alternate days of week to control her diet. Also, she is taking vegetable juice after every 2 days. If she starts the course from Monday, find the probability that she will take
 - a) Fruits and juice on the same day
 - b) Neither fruits nor juice on the same day
 - c) Fruits and juice on different days
- 10 A coin is tossed three times. Find the probability of getting
 - a) At least 2 heads
 - b) At most 2 tails
 - c) Exactly three heads
- 11 A card is drawn from a well-shuffled deck of 52 cards. Find the probability of getting
 - a) A queen of black colour
 - b) Either a club or a diamond
 - c) A red face card
- 12 A bag contains some red and blue balls. The probability of drawing a red ball is $\frac{1}{3}$. If 3 red are removed from the bag, the probability of drawing a red ball becomes $\frac{1}{6}$. Find the product of the number of red balls and that of blue balls.