## Multiple Choice Questions:

1 mark each

1. Two coins are tossed together. The probability of getting head on both is:
(a) 0
(b) $\frac{1}{4}$
(c) $\frac{3}{4}$
(d) $\frac{1}{2}$
2. A bag contains cards which are numbered from 2 to 90 . A card is drawn at random from the bag. The probability that it bears a two digit number is:
(a) $\frac{88}{92}$
(b) $\frac{88}{90}$
(c) $\frac{81}{89}$
(d) $\frac{89}{90}$
3. The probability of getting a prime number in single throw of a dice is:
(a) 0
(b) $\frac{1}{3}$
(c) $\frac{1}{2}$
(d) $\frac{1}{4}$
4. The probability of getting a bad egg from a lot of 400 eggs is 0.035 . The number of bad eggs in the lot is :
(a) 7
(b) 14
(c) 21
(d) 28
5. In a throw of two dice, the probability of getting a sum of 10 is:
(a) $\frac{1}{12}$
(b) $\frac{1}{36}$
(c) $\frac{1}{6}$
(d) $\frac{1}{4}$

Very Short Answer Type Questions:
6. A card is drawn at random from a pack of well shuffled deck of playing cards. Find the probability that the card is:
(a) a king or a jack
(b) a card of spade or an ace
7. From a group of 2 boys and 2 girls, two children are selected at random. What is the sample space representing the event. Find the probability that one boy and one girl is selected.
8. 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 card is:
(a) a prime number less than 10
(b) a number which is a perfect square.

Short Answer Type Questions:
3 marks each
9. A box contains 17 cards numbered $1,2,3, \ldots \ldots . .16,17$. A card is drawn at random from the box. Find the probability that the number on the drawn card is:
(a) odd
(b) even and prime
(c) divisible by 3
10. A bag contains 5 white balls, 7 red balls, 4 black balls and 2 blue balls. One ball is drawn at random from the bag. What is the probability that the ball drawn is:
(a) white or blue
(b) not white
(c) neither white nor black
11. A box contains 90 discs which are numbered from 1 to 90 . If one disc is drawn at random from the box, find the probability that it bears:
(a) a two-digit number
(b) a perfect square number
(c) a number divisible by 5 .

Long Answer Type Questions:
12. A card is drawn at random from a well-shuffled deck of playing cards. Find the probability that the card drawn is:
(a) a king or a jack
(b) a non-ace
(c) a red card
(d) neither a king nor a queen
(e) a black king or red queen.
13. A box has cards numbered 14 to 99 . Cards are mixed thoroughly and a card is drawn from the bag at random.

Find the probability that the number on the card, drawn from the box is:
(a) an odd number
(b) a perfect square number
(c) a number divisible by 7
(d) a number divisible by 2 or 5
(e) a number divisible by 2 and 5 .

