



**ACADEMIC YEAR 2022-23**

**Grade: X**

**Subject: MATHEMATICS**

**CH – 15 - PROBABILITY - ASSIGNMENT -2**

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1. Two dice are thrown at the same time. Find the probability of getting (i) same number on both dice. (ii) different numbers on both dice.
2. The probability that it will rain today is 0.84. What is the probability that it will not rain today?
3. What is the probability that an ordinary year has 53 Sundays?
4. Find the probability of getting 53 Fridays in a leap year.
5. Find the probability of getting 53 Fridays or 53 Saturdays in a leap year.
6. Find the probability of getting 53 Mondays or 53 Tuesday in an ordinary year.
7. Out of 400 bulbs in a box, 15 bulbs are defective. One bulb is taken out at random from the box. Find the probability that the drawn bulb is not defective.
8. In a lottery there are 10 prizes and 25 blanks. What is the probability of getting a prize?
9. 250 lottery tickets were sold and there are 5 prizes on these tickets. If Mahesh purchased one lottery ticket, what is the probability that he wins a prize?
10. A letter is chosen at random from the letters of the word 'INDEPENDENCE'. Find the probability that the letter chosen is a (i) vowel (ii) consonant (iii) E (iv) N (v) D.
11. A box contains 3 blue, 2 white, and 4 red balls. If a ball is drawn at *random* from the box, what is the probability that it will be
  15. white?
  16. blue?
  17. red?
  18. neither blue ball nor red ball?
  19. neither blue ball nor white ball?
  20. neither white ball nor red ball?
  21. not blue?
  22. not red?
  23. not white?
12. A number  $x$  is selected from the numbers 1, 2, 3 and then a second number  $y$  is randomly selected from the number 1, 4, 9. What is the probability that the product  $xy$  of the two numbers will be less than 9?

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