

General Instructions:

1. This question paper consists of **15 multiple-choice questions (MCQs)**.
2. Each question carries **1 mark**. The maximum marks for this test are **15**.
3. The total time allowed to complete this test is **20 minutes**.
4. All questions are compulsory.
5. Each question has **four options (A), (B), (C), and (D)**. Only one option is correct.
6. Students must choose the **most appropriate option** for each question.
7. No marks will be deducted for incorrect answers.
8. Calculators and other electronic devices are **not permitted**.
9. Rough work should be done neatly in the space provided (if any).
10. Read each question carefully before answering.

Chapter: Probability (Introductory) **Class:** 7

Test Code: 2026/Probability/VII/05

Max Marks: 15

Q.1 A die is thrown. What is the probability of getting a number which is a multiple of 2 but not a multiple of 4?

(a) $1/6$

(b) $1/3$

(c) $1/2$

(d) $2/3$

Q.2 Three coins are tossed once. What is the probability of getting at least two heads?

(a) $1/2$

(b) $3/8$

(c) $5/8$

(d) $1/4$

Q.3 A bag contains 2 red, 3 green, and 2 blue balls. Two balls are drawn at random. What is the probability that none of the balls drawn is blue?

(a) $10/21$

(b) $5/7$

(c) $2/7$

(d) $11/21$

Q.4 In a deck of 52 cards, what is the probability of drawing a card that is neither a heart nor a king?

(a) $9/13$

- (b) $36/52$
- (c) $35/52$
- (d) $10/13$

Q.5 A number is selected from numbers 1 to 30. What is the probability that it is a prime number ending with 3?

- (a) $1/10$
- (b) $1/15$
- (c) $1/30$
- (d) $2/15$

Q.6 If a letter is chosen from the word 'ASSASSINATION', what is the probability that it is a vowel?

- (a) $6/13$
- (b) $7/13$
- (c) $5/13$
- (d) $1/2$

Q.7 Two dice are thrown. What is the probability that the sum of the numbers on the faces is a prime number?

- (a) $5/12$
- (b) $7/18$
- (c) $13/36$
- (d) $11/36$

Q.8 A box contains cards numbered 1 to 100. A card is drawn. What is the probability that the card has a number which is a perfect square and a perfect cube?

- (a) $1/100$
- (b) $2/100$

(c) $3/100$

(d) $4/100$

Q.9 If the probability of an event is p , what is the probability of its complementary event?

(a) $p - 1$

(b) $1 - p$

(c) $1/p$

(d) $1 + p$

Q.10 A piggy bank contains 100 50p coins, 50 Re 1 coins, 20 Rs 2 coins, and 10 Rs 5 coins. If it is equally likely that one of the coins will fall out when the bank is turned upside down, what is the probability that the coin will NOT be a Rs 5 coin?

(a) $17/18$

(b) $1/18$

(c) $17/180$

(d) $19/20$

Q.11 A number x is chosen from 1, 2, 3 and a number y is chosen from 1, 4, 9. What is the probability that $xy < 9$?

(a) $5/9$

(b) $2/3$

(c) $4/9$

(d) $7/9$

Q.12 The probability of getting exactly one tail when two coins are tossed is:

(a) 0.25

- (b) 0.5
- (c) 0.75
- (d) 1.0

Q.13 A bag has 5 white and some red balls. If the probability of drawing a red ball is twice that of a white ball, find the number of red balls.

- (a) 5
- (b) 10
- (c) 15
- (d) 20

Q.14 The probability of picking a non-face card from a deck of 52 cards is:

- (a) $3/13$
- (b) $10/13$
- (c) $1/13$
- (d) $9/13$

Q.15 What is the probability that a randomly thrown dart hits the white region of a square board if the white region is a circle inscribed inside the square?

- (a) $\pi/4$
- (b) $4/\pi$
- (c) $1/2$
- (d) $\pi/2$

— *End of Question Paper* —