15. Probability

Question 1.
If a die is thrown once, the probability of getting a prime number is
(a) $\frac{1}{4}$
(b) $\frac{1}{2}$
(c) $\frac{1}{5}$
(d) $\frac{1}{3}$

Answer: (b) $\frac{1}{2}$

Question 2.
Cards each marked with one of the numbers 4, 5, 6 …20 are put in a box and mixed thoroughly. One card is drawn at random from the box. The probability of getting an even prime number is
(a) 0
(b) $\frac{1}{20}$
(c) 1
(d) $\frac{1}{2}$

Answer: (a) 0

Question 3.
A fair die is cast in the game of 'Ludo'. The probability of getting a score greater than 6 is
(a) 1
(b) $\frac{1}{6}$
(c) zero
(d) $\frac{2}{3}$

Answer: (c) zero

Question 4.
The probability that a non leap year selected at random will contain 53 Sunday's is
(a) $\frac{1}{7}$
(b) $\frac{2}{7}$

(c) $\frac{3}{7}$
(d) $\frac{5}{7}$

Answer: (a) $\frac{1}{7}$

Question 5.
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) $\frac{88}{90}$
(b) $\frac{88}{92}$
(c) $\frac{81}{89}$
(d) $\frac{89}{90}$

Answer: (c) $\frac{81}{89}$

Question 6.
The probability of getting one head is
(a) $\frac{1}{2}$
(b) $\frac{1}{4}$
(c) $\frac{3}{4}$
(d) None of these

Answer: (a) $\frac{1}{2}$

Question 7.
A number is selected at random from 1 to 75. The probability that it is a perfect square is
(a) $\frac{4}{45}$
(b) $\frac{10}{75}$
(c) $\frac{6}{75}$
(d) $\frac{8}{75}$

Answer: (d) $\frac{8}{75}$

Question 8.
Three face cards of spade are removed from a well shuffled pack of 52 cards and a card is drawn from the remaining pack. The probability of getting a black face card is

(a) $\frac{12}{50}$
(b) $\frac{7}{49}$
(c) $\frac{3}{49}$
(d) $\frac{9}{50}$

Answer: (c) $\frac{3}{49}$

Question 9.
Ram and Shyam are friends. The probability that both will have the same birth day is
(a) $\frac{1}{365}$
(b) $\frac{2}{365}$
(c) $\frac{364}{365}$
(d) none of these

Answer: (a) $\frac{1}{365}$

Question 10.
Find the probability of getting a number greater than 2 when a die is thrown
(a) $\frac{1}{6}$
(b) $\frac{2}{6}$
(c) $\frac{4}{6}$
(d) $\frac{2}{3}$

Answer: (d) $\frac{2}{3}$

Question 11.
If the probability of winning a game is 0.3, the probability of losing it is
(a) 1.3
(b) 1
(c) 0.7
(d) 0.1

Answer: (c) 0.7

Question 12.
The total number of events of throwing 10 coins simultaneously is
(a) 1024

(b) 512
(c) 100
(d) 10

Answer: (a) 1024

Question 13.
Two fair coins are tossed simultaneously. Find the probability of Getting only one head
(a) $\frac{3}{4}$
(b) $\frac{1}{3}$
(c) $\frac{2}{3}$
(d) $\frac{1}{4}$

Answer: (a) $\frac{3}{4}$

Question 14.
A card is drawn from a pack of 52 cards at random. The probability of getting neither an ace nor a king card is
(a) $\frac{2}{13}$
(b) $\frac{8}{13}$
(c) $\frac{4}{13}$
(d) $\frac{11}{13}$

Answer: (d) $\frac{11}{13}$

Question 15.
A box contains 3 blue balls, 2 white balls and 4 red balls. If a ball is drawn at random from the box, the probability of getting a white ball is
(a) $\frac{3}{9}$
(b) $\frac{4}{9}$
(c) $\frac{2}{9}$
(d) 1

Answer: (c) $\frac{2}{9}$

Question 16.
In a throw of a die, the probability of getting a prime number is

(a) $\frac{1}{2}$
(b) 6
(c) $\frac{3}{4}$
(d) $\frac{3}{2}$

Answer: (a) $\frac{1}{2}$

Question 17.
A card is drawn from a pack of 52 cards at random. The probability of getting either an ace or a king card is
(a) $\frac{4}{13}$
(b) $\frac{8}{13}$
(c) $\frac{3}{13}$
(d) $\frac{2}{13}$

Answer: (d) $\frac{2}{13}$

Question 18.
Three unbiased coins are tossed. What is the probability of getting at most two heads?
(a) $\frac{7}{8}$
(b) $\frac{3}{8}$
(c) $\frac{1}{4}$
(d) $\frac{3}{7}$

Answer: (a) $\frac{7}{8}$

Question 19.
Cards marked with numbers 1, 2, 3, ……., 25 are placed in a box and mixed thoroughly and one card is drawn at random from the box. The probability that the number on the card is a multiple of 3 or 5 is
(a) $\frac{8}{25}$
(b) $\frac{13}{25}$
(c) $\frac{4}{25}$
(d) $\frac{3}{5}$

Answer: (b) $\frac{13}{25}$

Question 20.
An urn contains lottery tickets numbered from 1 to 100. If a ticket is selected at random, then the probability that it is a perfect square is
(a) 0.1
(b) 0.08
(c) 0.09
(d) 0.01

Answer: (a) 0.1

Question 21.
The probability of getting a prime number in single throw of a dice is:
(a) Zero
(b) $\frac{1}{2}$
(c) $\frac{1}{4}$
(d) $\frac{1}{3}$

Answer: (b) $\frac{1}{2}$

Question 22.
Which of the following can not be the probability of an event?
(a) 0.1
(b) $\frac{1}{3}$
(c) $\frac{17}{16}$
(d) 5%

Answer: (c) $\frac{17}{16}$

Question 23.
If an event cannot occur, then its probability is
(a) 1
(b) $\frac{3}{4}$
(c) $\frac{1}{2}$
(d) 0

Answer: (d) 0

Question 24.
An unbiased die is thrown once. The probability of getting a prime number is

(a) $\frac{1}{3}$
(b) $\frac{1}{4}$
(c) $\frac{1}{2}$
(d) $\frac{1}{5}$

Answer: (c) $\frac{1}{2}$