15. Probability

Question 1.
A card is selected at random from a deck of 52 cards. The probability of its being a red face card is
(a) $\frac{3}{13}$
(b) $\frac{1}{2}$
(c) $\frac{2}{13}$
(d) $\frac{3}{26}$

Answer: (d) $\frac{3}{26}$

Question 2.
An unbiased dice is thrown. What is the probability of getting an even number or a multiple of 3?
(a) $\frac{3}{2}$
(b) $\frac{2}{3}$
(c) $\frac{5}{4}$
(d) $\frac{4}{3}$

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

Question 3.
What is the probability that a leap year has 53 Sundays?
(a) $\frac{7}{8}$
(b) $\frac{4}{5}$
(c) $\frac{2}{3}$
(d) $\frac{2}{7}$

Answer: (d) $\frac{2}{7}$

Question 4.
Probability of boy that he will get married with his girlfriend is $\frac{2}{7}$ then probability that he will not get married will be:
(a) $\frac{5}{7}$

(b) $\frac{7}{2}$
(c) $\frac{2}{7}$
(d) $\frac{7}{10}$

Answer: (a) $\frac{5}{7}$

Question 5.
In a football match, a player hits 8 goals out of 60 balls. Find the probability that the player did not hit the goal.
(a) $\frac{11}{15}$
(b) $\frac{4}{5}$
(c) $\frac{8}{15}$
(d) $\frac{13}{15}$

Answer: (d) $\frac{13}{15}$

Question 6.
The probability of an event of a trial is always
(a) more than 1
(b) between 0 and 1 (both inclusive)
(c) 1
(d) 0

Answer: (b) between 0 and 1 (both inclusive)

Question 7.
A standard deck of 52 cards is shuffled. One card is drawn at random. The probability that the card is red or an ace is
(a) $\frac{7}{13}$
(b) $\frac{5}{15}$
(c) $\frac{13}{17}$
(d) $\frac{2}{13}$

Answer: (a) $\frac{7}{13}$

Question 8.
Gugu throws a die once. The probability that she shows a number less than 5 is :
(a) $\frac{2}{3}$

(b) $\frac{1}{3}$
(c) $\frac{1}{6}$
(d) $\frac{5}{3}$

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

Question 9.
The maximum probability of an event of a trial is:
(a) 0
(b) 1
(c) Lies between 0 and 1.
(d) -1

Answer: (b) 1

Question 10.
A and B throw a pair of dice. If A throws 9, then B's chance of throwing a higher number is
(a) $\frac{1}{6}$
(b) $\frac{1}{9}$
(c) $\frac{1}{3}$
(d) $\frac{2}{9}$

Answer: (a) $\frac{1}{6}$

Question 11.
The probability of an impossible event is
(a) more than 1
(b) less than 1
(c) 1
(d) 0

Answer: (d) 0

Question 12.
Three unbiased coins are tossed together. The probability of getting at least two heads is
(a) $\frac{3}{8}$
(b) $\frac{1}{2}$
(c) $\frac{1}{8}$
(d) 1

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

Question 13.
The probability of getting 53 Sundays in a leap year is
(a) $\frac{2}{7}$
(b) $\frac{3}{7}$
(c) $\frac{7}{3}$
(d) $\frac{1}{7}$

Answer: (a) $\frac{2}{7}$

Question 14.
In a simultaneous throw of a pair of dice, the probability of getting a sum more than 7 will be
(a) $\frac{5}{12}$
(b) $\frac{13}{12}$
(c) $\frac{7}{12}$
(d) $\frac{9}{12}$

Answer: (a) $\frac{5}{12}$

Question 15.
Three unbiased coins are tossed. What is the probability of getting at most two heads?
(a) $\frac{7}{8}$
(b) $\frac{3}{4}$
(c) $\frac{5}{6}$
(d) $\frac{3}{2}$

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

Question 16.
Which one of the following cannot be the probability of an event?
(a) $\frac{2}{3}$
(b) $\frac{-1}{6}$
(c) 0
(d) 1

Answer: (b) $\frac{-1}{6}$

Question 17.
Two unbiased coins are tossed. What is probability of getting at most one tail?
(a) $\frac{1}{2}$
(b) $\frac{1}{3}$
(c) $\frac{1}{4}$
(d) $\frac{3}{4}$

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

Question 18.
Two unbiased coins are tossed simultaneously. The probability of getting at most one head is
(a) $\frac{5}{4}$
(b) $\frac{1}{4}$
(c) $\frac{3}{4}$
(d) $\frac{2}{3}$

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

Question 19.
A die is thrown 300 times and odd numbers are obtained 153 times. Then, the probability of getting an even number is
(a) $\frac{174}{300}$
(b) $\frac{147}{300}$
(c) $\frac{147}{153}$
(d) $\frac{153}{300}$

Answer: (b) $\frac{147}{300}$

Question 20.
The sum of the probabilities of All events of a trial is
(a) 1
(b) between 0 and 1
(c) less than 1
(d) greater than 1

Answer: (b) between 0 and 1

Question 21.
One card is drawn at random from a pack of 52 cards. What is the probability that the card drawn is either a red card or a king?
(a) $\frac{6}{13}$
(b) $\frac{1}{2}$
(c) $\frac{7}{13}$
(d) $\frac{27}{52}$

Answer: (c) $\frac{7}{13}$

Question 22.
In a series of 6 cricket matches, the number of runs scored by the captain of a team are 54, 32, 48, 55, 29, 35. So in the next match, the probability that he will cross the half century is
(a) 0.33
(b) 0.24
(c) 0.35
(d) 0.48

Answer: (a) 0.33