# QB365 <br> Important Questions - Probability 

10th Standard CBSE

## Maths

Reg.No.: $\square$
Time : 01:00:00 Hrs

Total Marks : 50

## Section - A

1) Probability of getting 6 with single die is.........
2) If the probability of winning a game is $\frac{5}{11}$, find the probability of losing the game.
3) From the number $3,5,5,7,7,7,9,9,9,9$, one number is selected at random, what is the probability that the selected number is mean?
4) A die is thrown once. What is the probability of getting a prime number.
5) Complete the following statements:
(iii) The probability of an event that is certain to happen is $\qquad$ Such an event is called -------------------
6) Two coins are tossed simultaneously. Find the probability of getting exactly one head.
7) A card is drawn at random form a well-shuffled pack of 52 playing cards. Find the probability of getting neither a red card nor a queen.
8) From a pack of 52 playing cards, a card is drawn at random. Find the probability, that the drawn card is not a face card.
9) One ticket is drawn at random from a bag containing tickets numbered 1 to 40 .Find the probability that the selected ticket has a number which is a multiple of 5 .
10) If $P(E)=0.15$, then find $P(\operatorname{not} E)$.

## Section-B

11) Which of the following experiments have equally likely outcomes? Explain
(i) A driver attempts to start a car. The car starts or does not start.
(ii) A player attempts to shoot a basketball. She/he shoots or misses the shot.
(iii) A trial is made to answer a true-false question. The answer is right or wrong.
(iv) A baby is born. It is a boy or a girl.
12) A box contains 5 red marbles, 8 white marbles and 4 green marbles. One marble is taken out of the box at random. What is the probability that the marble taken out will be (i) red? (ii) white? (iii) not green?
13) 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 is bears (i) a two digit number (ii) a perfect square number (iii) a number divisible by 5
14) Find the probability of getting 53 Fridays in a leap year.
15) Cards marked with numbers $3,4,5, \ldots ., 50$ are placed in a box and mixed thoroughly. One card is drawn at
random from the box. Find the probability that number on the drawn card is
(i) divisible by 7
(ii) a number which is a perfect square.
16) A bag contains 12 balls out of which $x$ are white.
(i) If one ball is drawn at random, what is the probability that it will be a white ball?
(ii) If 6 more white balls are put in the bag, the probability of drawing a white ball will be double than that in (i).

Find $x$.
17) An unbiased die is thrown, what is the probability of getting a multiple of 3.
18) A number is selected at random from first 70 natural numbers, find the probability that:
(i)it is a multiple of 3 and 4
(ii)it is a number divisible by 2 and 3
(iii)it is a perfect square number
19) A die is thrown once. Find the probability of getting:
(i)An number prime number
(ii)A multiple of 3.
20) A box contains 100 tokens on which 1 to 100 are marked. One token is drawn at random from the box. Find the probability that number on the token is:
(a)A perfect
(b)An even number

Section - C
21) In a game, the entry fee is Rs. 5. The game consists of tossing a coin 3 times. If one or two heads show, Shweta gets her entry fee back. If she throws 3 heads, she receives double the entry fees. Otherwise she will lose. For tossing a coin three times, find the probability that she
(i) loses the entry fee
(ii) gets double entry fee
(iii) just gets her entry fee
22) An urn consists of 100 identical tokens on which 1 to 100 are marked. One token is drawn.What is the probability that the number on token is:
(i)Less than 33
(ii)AA multiple of 5
(iii)AN even number
(iv)A multiple of 2 and 3
(v)An odd number
(vi)A perfect square
23) A bag contains 15 balls of which $x$ are blue and the remaining are red. If the number of red balls are increased by 5, the probability of drawing the red balls doubles. Find:
(i) P(red ball)
(ii) P (blue ball)
(iii) P (blue ball it of 5 extra red balls are actually added)
24) Three digit number are made using the digits $4,5,9$ (without repetition). If a number among them is selected at random, what is the probability that the number will :
(i) be a multiple of 5 ?
(ii) be a multiple of 9 ?
(iii) will end with 9 ?
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