Probability

Question - Probability

1) What is the probability of getting a sum 9 from two throws of a dice?

A)

- B)
- C)
- D)

E) None of these

Correct Answer: C

Solution :

Explanation Option [c] is correct. In two throws of a die, Let E = event of getting a sum

2) Two dice are thrown simultaneously. What is the probability of getting two numbers whose product is even?
A)
B)
C)
D)
E) None of these

Correct Answer: B

Solution :

Explanation Option [b] is correct. In a simultaneous throw of two dice, we have Let E = event of getting two numbers whose product Is even. Then, E = {(1,2), (1,4), (1,6), (2,1), (2,2), (2,3), (2,4), (2,5), (2,6), (3,2), (3,4), (3,6), (4,1), (4,2), (4,3), (4,4), (4,5), (4,6), (5/2), (5,4), (5.6), (6,1), (6,2), (6,3), (6,4), (6,5), (6,6)}.

3) A bag contains 4 white, 5 red and 6 blue balls. Three balls are drawn at random from the bag. The probability that all of them are red, is:

- A)
- B)
- C)
- D)
- E) None of these

Correct Answer: C

Solution :

Explanation Option [c] is correct. Let S be the sample space. Then, n (S) = number of ways of drawing 3 balls out. of 15

Let E = event of getting all the 3 red balls.

4) 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)
- B)
- C)
- D)

E) None of these

Correct Answer: A

Solution :

Explanation Option [a] is correct. Total number of balls Let S be the sample space. Then, n (S) = Number of ways of drawing 2 balls out of Let E = Event of drawing 2 balls, none of which is blue. n = Number of ways of drawing 2 balls out of (2+3) balls

5) In a box, there are 8 red, 7 blue and 6 green balls. One ball is picked up randomly. What is the probability that it is neither red nor green?

- A)
- B)
- C)
- D)
- E) None of these

Correct Answer: D

Solution :

Explanation Option [d] is correct. Total number of balls Let E = event that the ball drawn is neither red nor green = event that the ball drawn is red.

6) In a class, 30% of the students offered English. 20% offered Hindi and 10% offered both. If a student is selected at random, what is the probability that he has offered English or Hindi?

A)

- B)
- C)
- D)

E) None of these

Correct Answer: A

Solution :

Explanation Option [a] is correct,

7) A man and his wife appear in an interview for two vacancies in the same post. The probability of husband's selection is (1/7) and the probability of wife's selection is (1/5). What is the probability that only one of them is selected?

- B)
- C)
- D)

E) None of these

Correct Answer: B

Solution :

Explanation Option [b] is correct. Let A == Event that the husband is selected And B = Event that the wife is selected. Then, and

Required probability = P

[(A and not B) or (B and not A)]

8)	
Direction: for question number 14 ? 17. If A and B be two mutually exclusive events in a sample space such that.	
and	then
Find	:
A)	
B)	
C)	
D)	
E) None of these	
Correct Answer: C	
Solution :	
Explanation Option [c] is correct	t.

9)

Direction: for question number 14 ? 17. If A and B be two mutually exclusive events in a sample space such that.	
and	then
Find	:
A)	
В)	
C)	
D)	

E) None of these

Correct Answer: B

Solution :

Explanation Option [b] is correct.

10)

Direction: for question number 14 ? 17. If A and B be two mutually exclusive events in a sample space such that.		
and	then	
Find	:	
A)		
B)		
C)		
D)		
E) None of these		
Correct Answer: A		
Solution :		

Explanation Option [a] is correct.