**EXERCISE**

**1.** A bag contains 12 white and 18 black balls. Two balls are drawn in succession without replacement. What is the probability that first is white and second is black?

**A) 36/135 B) 36/145 C) 18/ 91 D) 30/91 E) None of these**

**2.** Two dice are thrown simultaneously. What is the probability of getting two numbers whose product is even?

**A) 3/16 B) 1/8 C) ¾ D) ½ E) None of these**

**3.** In a class, there are 15 boys and 10 girls. Three students are selected at random. The probability that 1 girl and 2 boys are selected is:

**A) 21/46 B) 21/135 C) 42/135 D) Can’t be determined**

**4.** A card is drawn from a pack of 52 cards. The probability of getting a queen of club or a king of heart is?

**A) 3/26 B) 3/52 C) 1/26 D) ¼ E) None of these**

**5.** 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 blue, is:

**A)  1/91 B)  2/91 C) 3/91 D) 4/91 E) None of these**.

**6.**  A bag contains 2 yellow, 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)  5/7 B) 1/21 C) 10/21 D) 2/9E) None of these**

**7.** Three coins are tossed. What is the probability of getting at most two tails?

**A)  1/8 B) 5/8 C) 3/8 D) 7/8 E) None of these**

**8.** One card is drawn at random from a pack of 52 cards. What is the probability that the card drawn is a face card (Jack, Queen and King only)?

**A)  1/13 B) 2/13 C) 3/13 D)  3/52 E) None of these**

**9.** P and Q sit in a ring arrangement with 10 persons. What is the probability that P and Q will sit together?

**A) 2/11 B) 3//11 C) 4/11 D) 5/11 E) None of these**

**10.** Two dice are thrown simultaneously. Find the probability of getting a multiple of 2 on one dice and multiple of 3 on the other dice.

**A)  1/9 B) 11/36 C) 13/36 D) Data inadequate**

**E) None of these**

**11.**A bag contains 6 white and 4 black balls .2 balls are drawn at random. Find the probability that they are of same colour.  
**A) ½ B) 7/15 C) 8/15 D) 1/9**  
  
**12.**Two cards are drawn at random from a pack of 52 cards.what is the probability that either both are black or both are queen?  
**A) 52/221 B) 55/190 C) 55/221 D) 19/221**  
**13.**A problem is given to three students whose chances of solving it are 1/2, 1/3 and 1/4 respectively. What is the probability that the problem will be solved?  
**A) ¼ B) ½ C) ¾ D) 7/12**  
  
**14.**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 ?  
**A) 2/7 B) 1/7 C) ¾ D) 4/5**  
  
**15.**In a lottery, there are 10 prizes and 25 blanks. A lottery is drawn at random. What is the probability of getting a prize?  
**A) 2/7 B) 5/7 C) 1/5 D)1/2**

**16.**Tickets numbered 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5?  
**A) ½ B) 3/5 C) 9/20 D) 8/15**  
  
**17.**Two dice are tossed. The probability that the total score is a prime number is:  
**A) 5/12 B) 1/6 C) ½ D) 7/9**

**18.**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) ½ B) ¾ C) 4/5 D) 2/5**

**19**.A speaks truth in 75% of cases and B in 80% of cases. In what percentage of cases are they likely to contradict each other, narrating the same incident  
**A) 30/100 B) 35/100 C) 45/100 D) 50/100**

**20.**A bag contains 50 tickets numbered 1,2,3,4......50 of which five are drawn at random and arranged in ascending order of magnitude.Find the probability that third drawn ticket is equal to 30.  
**A) 551/15134 B) ½ C) 552/15379 D) 1/9**