**Probability**

Q1 : A number X is chosen at random from the numbers -3, -2, -1, 0, 1, 2, 3. What is the probability that |X|<2?

a. 5 / 7 b. 3 / 7 c. 3 / 5 d. 1 / 3

Q2 : An urn contains 6red, 5 blue and 2 green marbles. If 2 marbles are picked at random, what is the probability that both are red?

a. 6 / 13 b. 5 / 26 c. 5 / 13 d. 7 / 26

Q3 : 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. 18 / 145 b. 18 / 29 c. 36 / 135 d. 36 / 145

Q4 : A five-digit number is formed by using digits 1,2,3,4 and 5 without repetition. What is the probability that the number is divisible by 4?

a. 1/5 b. 5/6 c. 4/5 d. 1/6

Q5 : A bag contains 5 red and 3 green balls. Another bag contains 4 red and 6 green balls. If one ball is drawn from each bag. Find the probability that one ball is red and one is green?

a. 19/20 b. 17/20 c. 16/20 d. 21/40

Q6 : The odds against an event are 5:3 and the odds in favour of another independent event are 7:5. Find the probability that at least one of the two events will occur.

a. 52/96 b. 69/96 c. 71/96 d. 13/96

Q7 : There are four hotels in a town. If 3 men check into the hotels in a day then what is the probability that each checks into a different hotel?

a. 6/7 b. 1/8 c. 3/8 d. 5/9

Q8 : A box contains 100 balls, numbered from 1 to 100. If three balls are selected at random and with replacement from the box, what is the probability that the sum of the three numbers on the balls selected from the box will be odd?

a. 1/2 b. 3/4 c. 3/8 d. 1/8

Q9 : Out of 17 applicants, 8 are boys and 9 are girls. Two persons are to be selected for the job. Find the probability that at least one of the selected persons will be a girl.

a. 27/34 b. 25/34 c. 19/34 d. 21/34

Q10 : A bag contains 3 white balls and 2 black balls. Another bag contains 2 white and 4 black balls. A bag and a ball are picked random. The probability that the ball will be white is –

a. 7/11 b. 7/30 c. 5/11 d. 7/15

Q11 : What is the probability that a two digit number selected at random will be a multiple of '3' and not a multiple of '5'?

a. 2/15 b. 4/15 c. 1/15 d. 4/90

Q12 : Dinesh speaks truth in 3/4 cases and Abhishek lies in 1/5 cases. What is the percentage of cases in which both Dinesh and Abhishek contradict each other in stating a fact?

a. 60% b. 35% c. 20% d. 15%

Q13 : A dice is rolled three times and the sum of the numbers appearing on the uppermost face is 15. The chance that the first roll was a four is:

a. 2/5 b. 1/5 c. 1/6 d. 5/6

Q14 : Four different objects 1, 2, 3 and 4 are distributed at random in four places marked 1, 2, 3 and 4. What is the probability that none of the objects occupy the place corresponding to its number?

a. 17/24 b. 3/8 c. 1/2 d. 5/8

Q15 : There are three events A, B and C, one of which must and only can happen. If the odds are 8:3 against A, 5:2 against B, the odds against C must be:

a. 13 : 7 b. 3 : 2 c. 43 : 34 d. 43 : 77

Q16 : Four boys and three girls stand in queue for an interview. The probability that they stand in alternate positions is:

a. 1/35 b. 1/34 c. 1/17 d. 1/68

Q17 : A bag contains 2 red, 3 green and 2 blue balls are to be drawn randomly. What is the probability that the balls drawn contain no blue ball?

a. 5/7 b. 10/21 c. 2/7 d. 11/21

Q18 : Two squares are chosen at random on a chessboard. What is the probability that they have a side in common?

a. 1/18 b. 64/4032 c. 63/64 d. 1/9

Q19 : Two dice are tossed. The probability that the total score is a prime number is:

a. 1/6 b. 5/12 c. 1/2 d. 7/9

Q20 : Two dice are thrown simultaneously. What is the probability of getting two numbers whose product is even?

a. 1/2 b. 3/4 c. 3/8 d. 5/16

Q21 : 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. 25/117 c. 1/50 d. 3/25

Q22 : 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. 1/13 b. 2/13 c. 1/26 d. 1/52

Q23 : From a pack of 52 cards, two cards are drawn together at random. What is the probability of both the cards being kings?

a. 1/15 b. 25/57 c. 35/256 d. 1/221

Q24 : A box contains 20 electric bulbs, out of which 4 are defective. Two bulbs are chosen at random from this box. The probability that at least one of these is defective is –

a. 4/19 b. 7/19 c. 12/19 d. 21/95

Q25 : Two brothers X and Y appeared for an exam. The probability of selection of X is 1/7 and that of B is 2/9. Find the probability that both of them are selected.

a. 1/63 b. 2/35 c. 2/63 d. 9/14

Q26 : Pramod and Qureshi sit in a ring arrangement with 10 persons. What is the probability that Pramod and Qureshi will sit together?

a. 2/11 b. 3/11 c. 2/9 d. 4/9

Q27 : 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. 5/12 b. 11/36 c. 5/36 d. 13/36

Q28 : From a pack of 52 cards, 3 cards are drawn. What is the probability that one is ace, one is queen and one is jack?

a. 19/5525 b. 21/5525 c. 17/5525 d. 16/5525

Q29 : A card is drawn from a pack of 52 cards. The card is drawn at random. What is the probability that it is neither a spade nor a Jack?

a. 4/13 b. 2/13 c. 6/13 d. 9/13

Q30 : Anil tossed a coin AND rolled a die. What is the probability of getting a tail and a 4 on the die?

a. 1/2 b. 1/6 c. 1/8 d. 1/12