

## ECAT Mathematics Chapter 9 Permutation, Combination and Probability

Sr	Questions	Answers Choice
1	The sum of all even numbers less than 100 is	A. 2450 B. 2352 C. 2272 D. 2468
2	A card is drawn from a pack of cards numbered 1 to 52, the probability that the number on the card is a perfect square is	A. 1/13 B. 2/13 C. 7/52 D. None of these
3	<input type="text" value="Question Image"/>	A. n! B. 0! C. 1 D. None of these
4	<input type="text" value="Question Image"/>	A. 5 B. 20 C. 9 D. 4
5	<input type="text" value="Question Image"/>	A. 1.5 B. 1.2 C. 8 D. None of these
6	Two cards are drawn at random without replacement. the probability that the first is a king and second is not a king is	A. 48 / 663 B. 24 / 663 C. 12 / 663 D. None of these
7	A die is rolled. What is the probability that the dots on the top are greater than 4?	A. 1/4 B. 1/2 C. 1/3 D. 1/33
8	The sum if 1,3,5,7,9..... up to 20 terms is	A. 400 B. 472 C. 563 D. 264
9	How many different 5-digit even numbers are possible form digit 1,2,4,6,8	A. 4 : 4! B. 4! C. 5! D. 4!+4!
10	Number of combination of zero or more things out of n different things	A. nPn B. nPr C. nCr D. 2n
11	The domain of an infinite sequence is a	A. Set of natural numbers B. R C. Subset of N D. None of the above
12	All letters of the word "AGAIN" are permuted in all possible ways and the words so formed (with or without meaning) are written as in dictionary, then the 50th word is	A. NAAIG B. NAAIG C. IAANG D. INAGA
13	The probability to get an odd number in a dice thrown once is	A. 1/2 B. 1/6 C. 1/3 D. 2
14	Given two independent event A and B such that P(A) = 0.30 and P(B) = 0.60. Probability of getting neither A nor B is	A. 0.28 B. 0.13 C. 0.12 D. 0.42
15	<input type="text" value="Question Image"/>	
16	The number of 5-digit number that can be formed from the digits 1,2,4,6,8, when 2 and 8 are	A. 72 B. 48

16	never together is	C. 144 D. 20
17	A bag contains 5 white, 7 red and 5 black balls. If four balls are drawn one by one with replacement, the probability that none is white is	A. $(11/16)^2$ B. $(5/16)^2$ C. $(11/16)^4$ D. $(5/16)^4$
18	How many arrangements of the letters of the word PAKISTAN can be made	
19	The sum of all positive integral multiple of 5 less than 100 is	A. 950 B. 760 C. 1230 D. 875
20	For a positive integer n	A. $n! = n(n + 1)$ B. $n! = n(n+1)!$ C. $n! = n(n - 1)$ D. $n! = n(n - 1)!$