

ECAT Mathematics Chapter 9 Permutation, Combination and Probability

Sr	Questions	Answers Choice
1	A die is thrown, the probability that the dots on the top are prime numbers or odd numbers is	A. 1/2 B. 2/3 C. 1/3 D. 2/5
2	Five engineering, four mathematics, two chemistry books are placed on a table at random. The probability that the books of each kind are all together is	
3	How many necklaces can be made from 6 beads of different colours?	A. 120 B. 60 C. 24 D. 15
4	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. 0.9 B. 0.74 C. 0.2016 D. None of these
5	An experiment yields 3 mutually exclusive and exhaustive events A, B, C, if $P(A) = 2$ and $P(B) = 3$. then $P(C) =$	A. 1 / 11 B. 2 / 11 C. 3 / 11 D. 6 / 11
6	Two coins are tossed twice each. The probability that the head appears on the first toss and the same forces appear in the two tosses is	A. 1/4 B. 1/2 C. 1/3 D. 1/7
7	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. 110 B. 220 C. 1320 D. None of these
8	The sum of all odd numbers between 100 and 200 is	A. 6200 B. 7500 C. 6500 D. 3750
9	How many 3 digit numbers can be formed by using each one of the digit 2, 3, 5, 7, 9 only once?	A. 15 B. 24 C. 60 D. 120
10	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. NAAGI B. NAAIG C. IAANG D. INAGA
11	$(n + 2) (n + 1) n =$ _____	
12	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
13	An unbiased die is thrown. Then the probability of getting a prime is	A. 1/2 B. 2/3 C. 3/4 D. None of these
14	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. 0 B. 20 C. 90 D. 80
15	A sequence is a function whose domain is	A. N B. Subset of N C. R D. None of these
16	The probability to get an odd number in a dice thrown once is	A. 1/2 B. 1/6 C. 1/3 D. 2

17	Question Image	<p>A. $5/12$ B. $3/8$ C. $5/8$ D. $7/4$</p>
18	Question Image	<p>A. $P(A) + P(B)$ B. $P(A) - P(B)$ C. $P(A) \cdot P(B)$ D. $P(A) / P(B)$</p>
19	How many 6-Digit number can be formed without repeating any digit from the digits 0,1,2,3,4,5	<p>A. 720 B. 600 C. 120 D. $6 \cdot 5!$</p>
20	If n is a negative integer n! is	<p>A. 1 B. 0 C. Unique D. Not defined</p>