

ECAT Mathematics Chapter 9 Permutation, Combination and Probability

0	Overstions	Anaroman Ohaira
Sr	Questions	Answers Choice
1	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
2	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
3	Number of selections of n different things out of n	A. 1 B. nPr C. n! D. nPr
4	Three numbers are chosen random without replacement from $\{1, 2, 3,, 10\}$. the probability that minimum of the chosen numbering is 3 or their maximum is 7	A. 7 / 40 B. 5 / 40 C. 11 / 40 D. None of these
5	If 4 6P_r = $^6P_{r+1}$, then r is equal to	A. 4 B. 3 C. 2 D. 1
6	The probability to get an odd number in a dice thrown once is	A. 6 B. 1 C. 1/6 D. 1/2
7	The number of 5-digit number that can be formed from the digits 1,2,4,6,8, when 2 and 8 are never together is	A. 72 B. 48 C. 144 D. 20
8	Four cards are drawn at random from a pack of 52 playing cards. The probability of getting all the four cars of the same suit is	A. 44/4165 B. 22/4165 C. 11/4165 D. None of these
9	Out of 40 consecutive natural numbers, two are chosen at random. Probability that the sum of the numbers is odd, is	A. 14 / 29 B. 20 / 39 C. 1 / 2 D. n
10	How many terms of the A.P 3,6,9,12,15must be taken to make the sum 108	A. 8 B. 6 C. 7 D. 36
11	If A and B are two disjoint events then	A. P(AUB)=P(A)+P(B) B. P(AUB)=P(A)-P(AUB) C. P(AUB)=P(A) or P(B) D. None
12	A box containing 10 mangoes out of which 4 are rotter. Two mangoes are taken together from the box. If one of them is found to be good, the probability that the other is also good is	A. 1/3 B. 8/15 C. 5/13 D. 5/9
13	Question Image	A. 6 B. 360 C. 120 D. 24
14	A box contains 10 red 30 white and 20 black marbles When a marble is drawn at random the probability that it is either red or white is	A. 1/6 B. 1/3 C. 1/2 D. 2/3
15	A dice is rolled. The probability that the dots on the top are greater than 4 is	A. 1/6 B. 1/3 C. 1/2 D. 1

16	Question Image	
17	Arithmetic mean between 14 and 18 is	A. 16 B. 17 C. 15 D. 32
18	The sum of all odd numbers between 100 and 200 is	A. 6200 B. 7500 C. 6500 D. 3750
19	The domain of an infinite sequence is a	A. Set of natural numbers B. R C. Subset of N D. None of the above
20	There are n seats round a table numbered 1, 2, 3 n. The number of ways in which m person can take seats is	A. ⁿ P _m B. ⁿ C _m x (m 1)! C. ⁿ⁻¹ P _m D. None of these