

ECAT Mathematics Chapter 9 Permutation, Combination and Probability

Sr	Questions	Answers Choice
1	The value of n, when $^{\rm n}{\rm P}_2$ = 20 is	A. 3 B. 4 C. 6 D. 5
2	Probability of an impossible event is	A. 0 B1 C. 1 D. ∞
3	Question Image	
4	A committee consists of 9 experts taken from three institutions A, B, and C, of which 2 are from, A, 3 form B and 4 from C. If three experts resign, then the probability that they belong to different institutions is	A. 1 / 729 B. 1 / 24 C. 1 / 21 D. 2 / 7
5	Two unbiased dice are thrown. The probability that the total score is > 5 is	A. 1 / 18 B. 7 / 18 C. 13 / 18 D. 11 / 18
6	Riaz, Saba. Maria, Shehzad are to give speeches in a class. The teacher can arrange the order of their presentation in	A. 4 ways B. 12 ways C. 256 ways D. 24 ways
7	How many signals can be given by 5 flags of different colours, using 3 flags at a time	A. 120 B. 60 C. 24 D. 15
8	Three dice are thrown together. The probability of getting a total of at least 6 is	A. 103 / 108 B. 10 / 216 C. 93 / 108 D. None of these
9	Fifteen girls compete in a race. The first three places can be taken by them in	A. 3! ways B. 12! ways C. 15 x 14 x 13 ways D. 42 ways
10	Question Image	A. 0.9 B. 0.74 C. 0.2016 D. None of these
11	How many comittees of 5 numbers can be chosen from a group of 8 players person when each committee must include 2 particular persons	A. 8! B. 5!3! C. 5! D. 20
12	Out of 10, 000 families with 4 children each, the number of families all of whose children are daughters is	A. 375 B. 500 C. 625 D. 150
13	The probability of getting a number between 1 and 100 which is divisible by 1 and itself if only is	A. 1/4 B. 1/2 C. 3/4 D. 25/98
14	Number of permutations of n distinct objects taken r(<n -="" 3(<n)="" 3)="" a="" at="" exclude="" is<="" objects="" particular="" td="" time="" which=""><td>A. 3! P(n, r - 3) B. P(n, 3) P(n, r - 3) C. P(r, r)P(n, r - 3) D. P(n - 3, r)</td></n>	A. 3! P(n, r - 3) B. P(n, 3) P(n, r - 3) C. P(r, r)P(n, r - 3) D. P(n - 3, r)
15	The probability that a slip of number divisible by 4 is picked from the slips bearing numbers $1,2,3,10$ is	A. 1/5 B. 1/4 C. 1/3 D. 1/2
16	A sequence is a function whose domain is	A. N B. Subset of N C. R

		D. None of these
17	In a school there are 150 students Out of these 80 students enrolled for mathematics class.50 enrolled for English class and 60 enrolled for Physics class The student enrolled for English cannot attend any other class but the students of mathematics and Physics can take two courses at a time find the number of students who have taken both physics and mathematics.	A. 40 B. 30 C. 50 D. 60
18	A combination lock on a suitcase has 3 wheels each labeled with nine digits from 1 to 9. If an opening combination is a particular sequence of three digits with no repeats, the probability of a person guessing the right combination is	A. 1 / 500 B. 1 / 504 C. 1 / 252 D. 1 / 250
19	Product of any n consecutive positive integers is divisible by	A. n B. √n C. n! D. None
20	Question Image	A. 56 B. 7 C. 8 D. 8/7