ECAT Mathematics Chapter 9 Permutation, Combination and Probability

Sr	Questions	Answers Choice
1	Question Image	
2	Number of selections of n different things out of n	A. 1 B. nPr C. n! D. nPr
3	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
4	In how many ways can 5 persons be seated at a round table	A. 5! B. 4! C. 3! D. 120
5	Question Image	A. 120 B. 5 C. 4 D. 6
6	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
7	The probability that the sum of dots appearing in two successive thrown of two dice, in every time 7 is	A. 1/5 B. 1/36 C. 1/7 D. 1/63
8	n(n - 1) (n - 2) in factorial form is	
9	Question Image	
10	Question Image	A. 5 / 12 B. 3 / 8 C. 5 / 8 D. 7 / 4
11	The value of n, when ${}^{n}P_{2}= 20$ is	A. 3 B. 4 C. 6 D. 5
12	Question Image	A. 0 B. -1 C. 1 D. 2
13	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
14	The factorial of a positive integers is a (an)	A. Rational number B. Positive integer C. Real number D. None
15	Question Image	A. 5 B. 20 C. 9 D. 4
16	The sum if 1,3,5,7,9..... up to 20 terms is	A. 400 B. 472 C. 563 D. 264
17	Six boys and 3 girls are to be seated at random, in a row, for a photograph. The probability that no two girls will sit together is	A. 1/12 B. 1/6 C. 5/12

		D. 7/12
18	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
19	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
20	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