ECAT (Pre-Eng) Mathematics Chapter 9 Permutation, Combination and Probability

Sr	Questions	Answers Choice
1	The number of the diagonals of a 6 sided figure is	A. 15 B. 21 C. 9 D. 6
2	The number of permutations of n objects of which there are $n_1$like of one kind, $n_2$like of the second kind and $n_3$like objects of third kind are	
3	The sample space for tossing a coin once is	A. {T, T} B. {H, H} C. {H, T} D. None of these
4	If n is a negative integer n! is	A. 1 B. 0 C. Unique D. Not defined
5	An integer is chosen at random from the number ranging from 1 to 50. the probability that the integer chosen is a multiple of 2 or 3 or 10 is	A. 3 / 10 B. 5 / 10 C. 7 / 10 D. 9 / 10
6	Question Image	
7	The domain of a finite sequence is a	A. Set of natural numbers B. R C. Subset of N D. Proper subset of N
8	Question Image	
9	Two balanced dice are tossed once, the sample space when the integers on the faces of two dice are the same is	A. {(1, 1), (2, 2), (3, 3)} B. {(4, 4), (5, 5), (6, 6)} C. {(1, 1), (2, 2), (3, 3), (4, 4), (5, 5), (6, 6)} D. None of these
10	In a class of 100 students, 60 drink tea, 50 drink coffee and 30 drink both. A student from his class is selected at takes at last one of 2 drinks is	A. 2 / 5 B. 3 / 5 C. 4 / 5 D. None of these
11	probability of a certain event is	A. 0 B. -1 C. 1 D. ∞
12	n!/(n-1)!=	A. n B. n! C. (n-1)! D. 0!
13	6! = _____	A. 360 B. 720 C. 6.5.4 D. None of these
14	Question Image	
15	When a selection of object is made without paying regard to the order of selection, it is called	A. Sequence B. Series C. Combination D. Permutation
16	If 4 ^6P_r= $^6P_{r+1}$, then r is equal to	A. 4 B. 3 C. 2 D. 1
17	How many necklaces can be made from 6 beads of different colours?	A. 120 B. 60 C. 24

		D. 15
18	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
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	8 . 7 . 6. 5 in factorial form is	