ECAT Mathematics Chapter 9 Permutation, Combination and Probability

Sr	Questions	Answers Choice
1	The value of n, when ${}^{n}P_{2}$= 20 is	A. 3 B. 4 C. 6 D. 5
2	Question Image	
3	n(n - 1) (n - 2) .... (n - r + 1) = _____	
4	The sum of all positive integral multiple of 5 less than 100 is	A. 950 B. 760 C. 1230 D. 875
5	Probability of an impossible event is	A. 0 B. -1 C. 1 D. ∞
6	Question Image	A. 5 / 12 B. 3 / 8 C. 5 / 8 D. 7 / 4
7	nCn-r is equal to	A. n! B. n-1Cr C. nCr D. None of these
8	A card is drawn from a pack of cards numbered 2 to 53. the probability that the number on the card is prime number less than 20 is	A. 2 / 13 B. 4 / 13 C. 5 / 13 D. 8 / 13
9	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
10	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
11	An event having more than one sample point is called	A. Certain event B. Compound event C. Simple event D. None
12	8 . 7 . 6. 5 in factorial form is	
13	If n is a negative integer n! is	A. 1 B. 0 C. Unique D. Not defined
14	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
15	n(n - 1) (n - 2) in factorial form is	
16	Two cards are drawn at random from a well shuffled pack of cards. The probability that at least one of them is a face card is	A. 3 / 17 B. 5 / 17 C. 7 / 17 D. 9 / 17
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
		A. Set of natural numbers

18	The domain of a finite sequence is a	B. R C. Subset of N D. Proper subset of N
19	The key for opening a door is in a bunch of 10 keys. A man attempts to open the door by trying the keys at random discarding the wrong key. The probability that the door is opened in the 5th trial is	A. 1 / 10 B. 2 / 10 C. 3 / 10 D. 4 / 10
20	0! = _____	A. 0 B. 1 C. 2 D. Not defined