

ECAT Mathematics Chapter 9 Permutation, Combination and Probability

Sr	Questions	Answers Choice
1	20. 19. 18. 17=	
2	A machine operates if all of its three components function. The probability that the first component fails during the year is 0.14, the second component fails is 0.10 and the third component fails is 0.05. the probability that the machine will fail during the year is	A. 0.2647 B. 0.2692 C. 0.3647 D. None of these
3	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
4	The sum of all odd numbers between 100 and 200 is	A. 6200 B. 7500 C. 6500 D. 3750
5	If A is an event then which of the following is true	A. P(A)<0 B. 0≥P(A)≤1 C. P(A)>0 D. None
6	Question Image	A. 5 B. 10 C. 20 D. 30
7	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
8	probability of a certain event is	A. 0 B1 C. 1 D. ∞
9	A key ring is an example of	A. Permutation B. Circular permutation C. Combination D. None
10	Question Image	
11	8 . 7 . 6. 5 in factorial form is	
12	The sum if 1,3,5,7,9 up to 20 terms is	A. 400 B. 472 C. 563 D. 264
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	Question Image	
15	The sample space for tossing a coin once is	A. {T, T} B. {H, H} C. {H, T} D. None of these
16	All letters of the word "AGAIN" are permuted in all possible ways and the words so formed (with or without meaning) are written as in dictionary, then the 50th word is	A. NAAGI B. NAAIG C. IAANG D. INAGA
17	The sum of all even numbers less than 100 is	A. 2450 B. 2352 C. 2272 D. 2468
		A. 7 / 25

18	I here are 25 tickets bearing number from 1 to 25. One ticket is drawn at random. The probability that the number on it is a multiple of 5 or 6 is	B. 9 / 25 C. 11 / 25 D. None of these
19	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
20	If 4 6P_r = $^6P_{r+1}$, then r is equal to	A. 4 B. 3 C. 2 D. 1