

ECAT Pre Engineering Entry Test

Sr	Questions	Answers Choice
1	Question Image	
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	Question Image	
4	Question Image	A. $\sec 5x + c$ B. $-\sec 5x + c$
5	Question Image	A. $\cos 3x + c$ B. $-\cos 3x + c$
6	Question Image	B. $\sin 2x + c$ C. $-\sin 2x + c$
7	Question Image	
8	Question Image	
9	Question Image	
10	Question Image	
11	Question Image	
12	Question Image	
13	Question Image	
14	Question Image	
15	Question Image	
16	Question Image	
17	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
18	Question Image	
19	How many necklaces can be made from 6 beads of different colours?	A. 120 B. 60 C. 24 D. 15
20	How many 3 digit numbers can be formed by using each one of the digit 2, 3, 5, 7, 9 only once?	A. 15 B. 24 C. 60 D. 120
21	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
22	In how many ways can 5 persons be seated at a round table	A. 5! B. 4! C. 3! D. 120
23	How many arrangements of the letters of the word MISSIPPI, taken all together can be made?	
24	Number of ways of writing the letters of WORD taken all at a time is	A. 24 B. 4 C. 12 D. 6

25	Question Image	A. 120 B. 5 C. 4 D. 6
26	n different objects can be arranged taken all at a time in _____	A. $(n + 1)!$ ways B. $(n - 1)!$ ways C. $n!$ ways D. n ways
27	Question Image	A. 6 B. 360 C. 120 D. 24
28	Question Image	A. $a \operatorname{cosec}(ax + b) + c$ B. $- a \operatorname{cosec}(ax + b) + c$
29	Question Image	A. 0 B. 20 C. 90 D. 80
30	Question Image	A. $a \sec(ax + b) + c$ B. $- a \sec(ax + b) + c$