

ECAT Pre Engineering Entry Test

Sr	Questions	Answers Choice
1	Question Image	A. a cot(ax + b) + c B a cot(ax + b) + c
2	Question Image	A. a tan(ax + b) + c B a tan(ax + b) + c
3	Question Image	A. n! B. 0! C. 1 D. None of these
4	Question Image	A. a sin(ax + b) + c B a sin(ax + b) + c
5	Question Image	A. a cos(ax + b) + c B a cos(ax + b) + c
6	Question Image	
7	Question Image	
8	Question Image	
9	Question Image	A. 3 B. 6 C. 0 D. None of these
10	(n + 2) (n + 1)n in factorial form is	
11	n(n - 1) (n - 2) in factorial form is	
12	Question Image	A. 56 B. 7 C. 8 D. 8/7
13	Question Image	
14	Question Image	A. 5x ^{4 + c} B. 1/6 x ⁶ + c C. 5x ² + c D. 1/5 x ⁶ + c
15	6! =	A. 360 B. 720 C. 6.5.4 D. None of these
16	Question Image	
17	8 . 7 . 6. 5 in factorial form is	
18	Question Image	A. 8 B. 1/56 C. 56 D. None of these
19	0! =	A. 0 B. 1 C. 2 D. Not defined
20	For a positive integer n	A. $n! = n(n + 1)$ B. $n! = n(n+1)!$ C. $n! = n(n - 1)$ D. $n! = n(n - 1)!$
21	If n is a positive integer then n! is	A. (n - 1) (n - 2)3, 2.1 B. n(n - 1) (n - 2)3, 2.1 C. n(n - 1) (n - 2)3 D. None of these

22	1 + 2 + 3 + + n =	
23	The third term of the sequence a _n = (-1) ⁿ⁻¹ (n-7) is	A. 8 B. 4 C4 D. 8
24	The fifth term of the sequence a _n = 2n + 3 is	A. 13 B13 C. 8 D. 3
25	If a_1 = 3, r = 2, then the nth term of the G.P. is	A. 2.3 ⁿ⁻¹ B. 3.2 ⁿ C. 3.2 ⁿ⁺¹ D. 3.2 ⁿ⁻¹
26	If a_1 , r and a_n are the first term, common ratio and the nth term respectively of a G. P. then a_n =	A. a ₁ r ⁿ B. a ₁ r ⁿ⁻¹ C. a ₁ r ⁿ⁺¹ D. a ₁ r
27	Question Image	A. 2 B3/2 C. 1 D. 0
28	Question Image	A. 1, 1/2, 0 B. 1, 2, 1 C. 1, 2, 3 D. 1, 2, 0
29	The 6th term of an arithmetic sequence whose first term is 3 and common difference in zero is	A. 18 B. 6 C. 3 D. 0
30	Question Image	