

## ECAT Computer Science Entry Test

Sr	Questions	Answers Choice
		A. 6x - 2 + c B. x <sup>3</sup> - x <sup>2</sup> + x
4	Question Image	+ C
1	Question inage	C. 6x - x <sup>2</sup> + c
		D. 6x <sup>3</sup> - x <sup>2</sup> + c
		A. 0
2	If a <sub>1</sub> and r are the first term and the common ratio respectively then (n + 1)th term of the	B. a <sub>1</sub> r <sup>n-1</sup> C. a <sub>1</sub> r <sup>n+1</sup>
	G.P. is	D. a <sub>1</sub> r <sup>n+1</sup>
		A. 0
3	The common ration of a geometric sequence cannot be	B. 1 C. 2
		D. 3
		B. 6x + 2 + c
4	Question Image	C. 6x + x <sup>2</sup> + c
		D. 6x <sup>3</sup> + x <sup>2</sup> + x
		A. 0
5	No term of a geometric sequence can be	B. 1
Ü	The term of a geometric sequence can be	C. 2 D. 3
_		D. J
6	Sum of n terms of a geometric series if   r   < 1 is	
7	Question Image	A. 2x + 3 B. x <sup>2</sup> + 3 + c
0	Question Image	2. x cap 2 ;cap c c
8	Question Image	
9	Question Image	D. none of these
10	Question Image	
11	Find the geometric mean between 4 and 16	
	The numbers of G <sub>1</sub> , G <sub>2</sub> , G <sub>3</sub> G <sub>n</sub> are called n geometric means between a and b is a, G <sub>1</sub> ,	A. H.P.
12	$G_2,G_3, \dots G_n$ , b are in	B. A.P. C. G.P.
	S <sub>2</sub> , S <sub>3</sub> , S <sub>11</sub> , b alo iii	D. None of these
13		A. A.P.
	G is geometric mean between a and b if a, G, b is	B. G.P. C. H.P.
		D. None of these
		A. 2 <sup>x</sup>
14	Question Image	B. 2 <sup>x </sup> ln x C. 2 <sup>x</sup> ln 2
15	Geometric mean between a and b is	
		A. a <sup>x</sup>
16	Question Image	B. a <sup>x</sup> ln a
		A. A.P
17	3, 6, 12, is	B. G.P. C. H.P.
		D. None of these
18		A. a <sub>1</sub> r <sup>n</sup>
	The nth term of a G.P. is	B. a <sub>1</sub> r <sup>n+1</sup>
		C. a <sub>1</sub> r <sup>n-1</sup> D. a <sub>1</sub> r <sup>-n</sup>
		A. d
19	The sum of n terms of a series is denoted by	B. n
	• • • • • • •	C. S <sub>n</sub> D. a <sub>n</sub>
		ש. a <i>י</i> סטט∕ווי/סטט∕

20	Question Image	
21	The series obtained by adding the terms of an arithmetic sequence is called the	<ul><li>A. Infinite series</li><li>B. Harmonic series</li><li>C. Geometric series</li><li>D. Arithmetic series</li></ul>
22	Question Image	
23	A number A is called the arithmetic mean between a and b if a, A, b is	A. Arithmetic sequence B. Geometric sequence C. Harmonic sequence D. Arithmetic sequence
24	Derivative of x <sup>3</sup> w.r.t x is	A. 0 B. 1 C. 3x <sup>2</sup> D. x <sup>3</sup>
25	Derivative of a w.r.t x is	A. 0 B. 1 C. x D. x
26	Write the first four terms of the sequence if $a_n$ = $(-1)^n n^2$	A1, 4, -9, 16 B. 1, -4, 9, 16 C. 1, 4, 9, 16 D. None of these
27	Derivative of sin x w.r.t. sin x is	A. 0 B. 1 C. sin x D. cos x
28	Question Image	
29	Write the first four terms of the arithmetic sequence 5, 2, -1, is	A. 3 B4 C. 7 D. 1
30	Arithmetic mean between x - 3 and x + 5 is	A. x + 1 B. x + 2 C. x + 3 D. x + 4