

ECAT Computer Science Entry Test

Sr	Questions	Answers Choice
1	In the expansion of $(a + x)^n$ the general term T_{r+1} is	
2	$a + x$ is _____	A. A trinomial B. A binomial C. A monomial D. None of these
3	The point R dividing internally the line joining the points $P(x_1, y_1)$ and $Q(x_2, y_2)$ in the ratio $K_1: K_2$ has the coordinates	
4	If n is any positive integer then $n! > n^2$ for	
5	If a statement $S(n)$ is true for $n = 1$ and the truth of $S(n)$ for $n = k$ implies the truth of $S(n)$ for $n = k + 1$, then $S(n)$ is true for all	A. Real numbers n B. Integers n C. Positive integers n D. None of these
6	The distance of the point $(1, 1)$ from the origin is	A. 0 B. 2
7		A. 3 B. 1 C. 4
8	If n is any positive integer then $n^2 > n + 3$ for	
9		A. 1 B. 2 C. 3
10	If n is any positive integer then $n! > 2^{n-1}$ for	
11		A. 1 B. 2 C. 3
12	If distance between $(3, b)$ and $(0, 0)$ is 3 then $b =$ _____	A. 3 C. 9 D. 0
13	If distance between $(a, 2)$ and $(0, 0)$ is 2 then $a =$ _____	A. 0 B. 2 C. 4
14	If distance of (a, b) from origin is 5 then	A. $a^2 + b^2 = 5$ B. $a = 5$ C. $b = 5$
15	If distance of (a, b) from y-axis is 2 then	A. $a = 2$ B. $b = 2$ C. $a = b$ D. $a = 4$
16	If distance of (a, b) from x-axis is 2 then	A. $a = 2$ B. $b = 2$ C. $a = b$ D. $b = 4$
17	The distance between the points $(2, 3)$ and $(3, 2)$ is	A. 5 C. 2 D. 10
18	If d_1 is the distance between $(0, 0)$ and $(1, 2)$ and d_2 is the distance between $(0, 0)$ and $(-1, -2)$ the	A. $d_1 < d_2$ B. $d_1 > d_2$ C. $d_1 = d_2$ D. none of these
19		
20	If d_1 is the distance between $(0, 0)$ and $(1, 2)$ and d_2 is the distance between $(0, 0)$ and $(2, 1)$ then	A. $d_1 = d_2$ B. $d_1 > d_2$ C. $d_1 < d_2$ D. none of these

21	Question Image	
22	The distance of the point $(-2, -3)$ from the origin is	A. 2 B. -5 C. -3
23	Question Image	A. 5 B. 10 C. 20 D. 30
24	The distance of the point $(2,3)$ from origin is	B. 5 C. 2 D. 3
25	The distance of the point $(-2, -3)$ from y-axis is	A. 2 B. -2 C. 3 D. -3
26	The distance of the point $(-2, -3)$ from x-axis is	A. 2 B. -3 C. 3 D. 5
27	The distance of the point $(-2, 3)$ from y-axis is	A. 2 B. -2 C. 3 D. 1
28	Question Image	
29	The distance of the point $(2,-3)$ from y-axis is	A. 2 B. -3 C. 1 D. 5
30	The distance of the point $(2,3)$ from y-axis is	A. 2 B. 3 C. 5