ECAT Pre Engineering 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 = 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	Question Image	A. 3 B. 1 C. 4
8	If n is any positive integer then $n^2 > n + 3$ for	
9	Question Image	A. 1 B. 2 C. 3
10	If n is any positive integer then $n! > 2^{n-1}$ for	
11	Question Image	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. a²+ b²=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. d₁< d₂ B. d₁> d₂ C. d₁= d₂ D. none of these
19	Question Image	
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. d₁= d₂ B. d₁<d₂ C. d_{1>}d₂ 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