

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	If $\tan^{-1}3 + \tan^{-1}x = \tan^{-1}8$, then $x =$	A. 5 B. $\frac{1}{5}$ C. $\frac{5}{14}$ D. $\frac{14}{5}$
2	The quadrilateral with the vertices $(-3,-2)$, $(2,-1)$, $(3,4)$ and $(-2,3)$ is a:	A. Square B. Rectangle C. rhombus D. parallelogram
3	The identity element with respect to subtraction is	A. 0 B. -1 C. 0 and 1 D. None of thes
4	If $(1+x-2x^3)^6 = 1+a_1x + a_2x^2 + a_3x^3 + \dots$ the the value of $a_2 + a_4 + a_6 + \dots + a_{12}$ will be	A. 32 B. 31 C. 64 D. 1024
5	The solution set of $\sin x + \cos x = 0$ is	
6	Question Image	
7	Question Image	
8	Question Image	
9	Question Image	A. $a_{\text{sub}<1\text{/sub>}} + a_{\text{sub}<2\text{/sub>}}$ B. $a_{\text{sup}<2\text{/sup>}} \times \text{sub}<1\text{/sub>}} + a_{\text{sup}<2\text{/sup>}} \times \text{sub}<2\text{/sub>}}$
10	The graph of the linear equation of the form $ax + by = c$ is a line which divided the plane into:	A. Two similar regions B. Two disjoint regions C. Four equal parts D. One region
11	The sixth term of the sequence 1,3,12,60.....is	A. 1500 B. 72 C. 2160 D. 2520
12	Question Image	A. A is proper subset of B B. A is an improper subset of B C. A is equivalent to B D. B is subset of A
13	The area enclosed between the graph $y = x^2 - 4x$ and the x- axis is:	A. $\frac{20}{3}$ B. $\frac{41}{3}$ C. $\frac{32}{3}$ D. $\frac{25}{3}$
14	The fixed point which lies on the axis of the cone is called its	A. axis B. apex C. nappes D. axis
15	Question Image	
16	Question Image	D. None of these
17	Question Image	A. Free vector B. Null vector C. Unit vector D. None of these
18	Question Image	D. none of these
19	How many terms of the A.P 3,6,9,12,15.....must be taken to make the sum 108	A. 8 B. 6 C. 7 D. 36

If $f(x) = x^2$ then $f(0)$ is

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B. 1
C. 2
D. none of these
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