ECAT Mathematics Online Test

Sr	Questions	Answers Choice
1	cos (180° -θ)=	A. sinθ B. - cosθ C. - sinθ D. None of above
2	$(1 - x)^3$= _____	A. 1 + 3x + 3x²+ x³ B. 1 + x + x²+ x³ C. 1 - x + x²- x³ D. 1 - 3x + 3x²- x³
3	Question Image	A. - cot 4x + c B. cot 4x + c C. tan 4x + c D. - tan 4x + c
4	Question Image	
5	e-radii are denoted by	A. η B. r2 C. r3 D. All of these
6	Question Image	A. -2x³ B. 2x⁻³ C. -2x⁻³ D. 2x³
7	For any set B, BUB' is	A. Is set B B. Set B' C. Universal set D. None of these
8	If a,β are the roots of ax2+bx+c=0,the equation whose roots are doubled is	A. ay2 +2by+c=0 B. ay2+2by+4c=0 C. ay2+2by+c=0 D. ay2+by+4c=0
9	Question Image	
10	Question Image	
11	Name the property used in 100 + 0 = 100	A. Additive inverse B. Multiplicative inverse C. Additive identity D. Multiplicative identity
12	The solution set of trigonometric equation contains	A. one element B. two elements C. three elements D. Infinite elements
13	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
14	Write the first four terms of the arithmetic sequence 5, 2, -1, ... is	A. 3 B. -4 C. 7 D. 1
		A. a² - c²

15	For Cosine Rule of any triangle ABC, $b^2$is equal to	+ 2ab cos A B. a³ + c³ - 3ab cos A C. a² + c² - 2ac cos B D. a² - c² 4bc cos A
16	Question Image	A. y/x B. x/y C. y/z D. None
17	ab > 0 and a > 0 then	A. a > b B. a < b C. a = b D. None
18	Question Image	
19	Question Image	
20	For all positive integral value of n,3^n< n! , when	A. n> 6 B. n< 6 C. n<11 D. n>11