

ECAT Pre General Science Mathematics Online Test

0		A 01 :
Sr	Questions	Answers Choice
1	A stationary point x is a relative exterma of y= f(x) is	A. $f''(x) \& gt; 0$ B. $f''(x) \& lt; 0$ C. $f''(x) \neq 0$ D. $f''(x) = 0$
2	Question Image	
3	If we have a statement "if p then q" then q is called	A. Conclusion B. Implication C. Unknown D. Hypothesis
4	If $Z_1 = 1 + i$, $Z_2 = 2 + 3i$, then $ Z_1 - Z_2 = ?$	A. √5 B. √7 C1-2i D. √3
5	Question Image	D. none of these
6	The many subset can be formed from the set {a,b,c,d}	A. 8 B. 4 C. 12 D. 16
7	Question Image	D. none of these
8	Question Image	
9	For any set X, XUX is	A. X B. X C. Φ D. Universal Set
10	Question Image	A. 5 B. 10
10	Question image	C. 20 D. 30
11	If $f(x) = (-x)^2$ then $f(-2)$ is	A. 0 B. 2 C4 D. 4
12	Root of the equation 3 ^{x-1} + 3 ^{1-x} = is	A. 2 B. 1 C. 0 D1
13	The set {-1,1} is	A. Group under the multiplication B. Group under addition C. Does not form a group D. Contains no identity element
14	Question Image	A. cos 2x + c B cos 2x + c C. tan 2x + c D. cot 2x + c
15	Question Image	A. Zero matrix B. Diagonal matrix C. Column matrix D. Scalar matrix
16	Geometrically the modulus of a complex number represents its distance from the	A. Point (1,0) B. Point (0,1) C. Point (1,1) D. Point (0,0)
17	Question Image	
18	If b_1 , b_2 , b_3 , are in G.P. with first term unity and common ratio r, then the minimum value of b_1 - b_3 + b_5 is equal to	A. 3/4 B. 1/4 C. 1 D. None of these

19	If a_1 = 3, r = 2, then the nth term of the G.P. is	A. 2.3 ⁿ⁻¹ B. 3.2 ⁿ C. 3.2 ⁿ⁺¹ D. 3.2 ⁿ⁻¹
20	Question Image	