ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	A. 0 B. 1 C. 1/2
3	Question Image	
4	f(x) = ax + b will be a constant function if	A. a = 1 , b = 1 B. a = 1 , b = 0
5	Question Image	A. hypothesis B. implication C. consequent D. conditional
6	The period of tan x/7 is	A. 3π B. 7π C. 15π D. 5π
7	3x + 4 ≤ 0 is	A. not inequality B. equation C. identity D. inequality
8	Question Image	A. 295 B. 495 C. 395 D. 722
9	Question Image	
10	i^2 =	A. 1 B. 2 C. -1 D. 0
11	an - an-1 will be common difference in an A.P if	A. n = 1∀n∈ N B. n>1∧n∈N C. n∈Z D. None of the above
12	Question Image	
13	Question Image	
14	The roots of the equation ax^2+ bx + c = 0 are complex/imaginary if	A. b²- 4ac < 0 B. b²- 4ac = 0 C. b²- 4ac > 0 D. None of these
15	The function whose range consists of just one element is called	A. One-One Function B. Identity Function C. Onto Function D. Constant Function
16	Question Image	A. -152 B. -252 C. 371 D. -421
17	if $y=x^2$ then dy/dx equals:	A. 2x B. x/2 C. 2x³ D. x³/2
18	Cos-1 (-x) =	A. -x B. 1/x C. tan-1 x D. π-cos-1 x
		A. 2

19	Question Image	B. -1 C. 8 D. not defined
20	d/dx [$\tan^2$ x]	A. 2tan x sec² x B. 2tan x sec x C. 2 cot x tan x D. 2sec² x cos² x