ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The value of n, when ${}^{n}P_{2}$= 20 is	A. 3 B. 4 C. 6 D. 5
2	If 3x4 +4x3+x5is divided by x+1 , which of the following is the remainder	A. 7 B. -2 C. 6 D. 1
3	Question Image	
4	In a school there are 150 students Out of these 80 students enrolled for mathematics class.50 enrolled for English class and 60 enrolled for Physics class The student enrolled for English cannot attend any other class but the students of mathematics and Physics can take two courses at a time find the number of students who have taken both physics and mathematics.	A. 40 B. 30 C. 50 D. 60
5	$\cos h^2 x + \sin h^2 x$	A. an even function B. an odd function C. an even and implicit function D. neither even nor a odd
6	The principal value of $\sin^{-1}(-1/2)$	A. π/3 B. π/4 C. π/6 D. -π/6
7	Question Image	
8	Question Image	
9	The positive integer just greater than $(1+0.0001)^{10000}$is	A. 4 B. 5 C. 2 D. 3
10	If f(x) = c thenf^{1}(x) equals:	A. 1 B. 0 C. cx D. c
11	Question Image	
12	Question Image	A. Singleton set B. A set with two points C. Empty set D. None of these
13	Archimedes approximate the function by horizontal function and the area under f by the sum of small	A. Parallelograms B. Squares C. Retangles D. Polygons
14	$7^{2n}+ 3^{n-1}. 2^{3n-3}$is divisible by	A. 24 B. 25 C. 9 D. 13
15	The set {0,-1} hold closure property under	A. Addition B. Both a & c C. Multiplication D. None of these
16	e-radii are denoted by	A. η B. r2 C. r3 D. All of these
17	Question Image	A. range of f B. domain of f C. both (a) and (b) D. none of these

18	For a positive integer n	A. n! = n(n + 1) B. n! = n(n+1)! C. n! = n(n - 1) D. n! = n(n - 1)!
19	Roots of the equation $x^2 + 2x + 3 = 0$ are	A. Real and equal B. Real and distinct C. Complex D. None of these
20	Question Image	A. c/a B. -c/a C. b/a D. -b/a