ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	If a = {2m/2m < 9 ,m€ p} , the (n A) =	A. {2,3,4,5,6,7,8} B. {2,4,6,8.....16} C. { 4, 6} D. {2,3,5,7}
2	Any conditional and its contrapositive are	A. Equilavant B. Opposite C. Equal D. Not Equal
3	Question Image	A. hypothesis B. implication C. consequent D. conditional
4	There are _____ basic techniques for solving a quadratic equation	A. Two B. Three C. Four D. None of these
5	x = _____ is in the solution of 2x - 3 < 0	A. 2 B. -2 C. 3 D. 4
6	Question Image	
7	Question Image	A. Associate law of addition B. Commutative law of addition C. Additive identity D. Closure law of addition
8	Matrices A = [aij] 2 x 3 and B =[bij] 3 x 2 are suitable for	A. BA B. A² C. AB D. B²
9	Power set of X i.e P(X) _____ under the binary operation of union U	A. Forms a group B. Does not form a group C. Has no identity element D. Infinite set although X is infinite
10	Question Image	
11	The identity element of a set X with respect to intersection in P(x) is	A. X B. Does not exist C. ∅ D. None of these
12	Question Image	A. 2 B. 7 C. 8 D. 12
13	Both the roots of the equation (x -b) (x - c) + (x -c) (x-a) +(x-a) (x-b) = 0 are always	A. Positive B. Negative C. Real D. None of these
14	If $f(x) = 2x^3 + 1$ then $f^{-1}(0)$ =	A. 0 B. 1 C. 6 D. None of these
15	Question Image	A. c/a B. -c/a C. b/a D. -b/a
16	Question Image	
17	Question Image	
		A. cos x

18	If$\pi \leq x \leq 2\pi$, then cos-1 (cos x)=	B. -x C. 1/x D. -x
19	The largest possible domain of the function: $y=\sqrt{(x)}$ is:	A. (0 ,∞) B. 12 C. (3 , 12) D. (3 ,∞)
20	The set { 1 , -1} is closed w.r.t.	A. Addition B. Multiplications C. Subtraction D. None of these