ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	$a > b \Rightarrow a + c > b + c$ is known as	A. Trichotomy property B. Additive property of inequality C. Transitive property D. Multiplicative property
2	If $y = x^n$ then dy/dx equals:	A. nx B. x^{n-1} C. nx^{n-1} D. n
3	The value of 300° in term of π is	A. $5\pi/3$ B. $2\pi/3$ C. $5\pi/2$ D. 5π
4	Question Image	D. none of these
5	The set $\{x + iy / x, y \in Q\}$ forms a group under the binary operation of	A. Addition B. Multiplication C. Division D. Both addition and multiplication
6	The length of perpendicular from (3,1) to the line $4x + 3y + 20 = 0$ is:	A. 7 B. 5 C. 11 D. 12
7	The set of real numbers is a subset of	A. The set of natural numbers B. The set of rational numbers C. The set of integers D. The set of complex numbers
8	A square matrix $A = [a_{ij}]$ is upper triangular when	A. $c_{ij} = 0$ B. $b_{ij} = 0$ C. $a_{ij} = 0$ for all i > j D. $d_{ij} = 0$
9	$\forall a, b \, \varepsilon \, R$, $ab = be$ is a	A. Commutative law of multiplication B. Closure law of multiplication C. Associative law of multiplication D. Multiplicative identity
10	$(a-1)-1 =$	A. $a-1$ B. a C. $-a$ D. None of above
11	Question Image	A. 16 / 7 B. 6 / 17 C. 7 / 16 D. None of these
12	$(51)^4$ is equal to	A. 7065201 B. 8065201 C. 6765201 D. 6565201
13	Which of the following is a scalar.	A. force B. frequency C. weight D. acceleration
14	Question Image	A. 15 B. 9 C. 7 D. 8
15	Question Image	A. An expression B. Rational fraction C. Equation D. Identity
16	sn (2sin-10.8)	A. 0.56 B. 0.69 C. -0.16

17	Question Image	A. p and q B. p or q C. p implies q D. p is equivalent to q
18	Question Image	
19	Question Image	D. None of these
20	f(x)g(x)- ∫g(x) f′(x) dx is equal to	A. ∫f(x)g′(x)dx B. ∫f′(x)g(x)dx C. ∫f′(x)g(x)′dx D. ∫f(x)g(x)dx