

## ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Question Image	
2	The set of integer is	A. Finite group B. A group w.r.t addition C. A group w.r.t multiplication D. Not a group
3	The expansion of $(1 - 3x)^{-1}$ is valid if	A. $ x  < 1$ B. $ x  < 3$ C. $ x  < 1/3$ D. None of these
4	The many subset can be formed from the set {a,b,c,d}	A. 8 B. 4 C. 12 D. 16
5	Question Image	
6	$s > t$ then	A. $(s - t)^2 > (t - s)^2$ B. $(s - t)^2 < (t - s)^2$ C. $(s - t)^2 = (t - s)^2$ D. None
7	A function whose range is just one element is called	A. One-one function B. Constant function C. Onto function D. Identity function
8	The negation of a number	A. a relation B. a function C. unary operation D. binary operation
9	If in a set of real no a is multiplicative identity then	A. $a, a = a^2$ B. $a, a = 1$ C. $a, a = 0$ D. None of these
10	$3/\pi = \dots\dots\dots$	A. $54.71^{\circ}$ B. $21^{\circ}$ C. $51^{\circ}$ D. $29^{\circ}$
11	The exact degree value of the function $\sin^{-1}(-\sqrt{3}/2)$ is	A. $70^{\circ}$ B. $50^{\circ}$ C. $90^{\circ}$ D. $60^{\circ}$
12	Question Image	A. $A = x, B = 1$ B. $A = 0, B = 2$ C. $A = -1, B = 1$ D. $A = x-1, B = x+1$
13	Rational number is a number which can be written as a terminating decimal fraction or a	A. Non-terminating decimal fraction B. Non-recurring C. Recurring decimal fraction D. a, b and c
14	The greatest integer which divides the number $101^{100} - 1$ is	A. 100 B. 1000 C. 10000 D. 100000
15	The law of tangents is _____	
16	Geometric mean between a and b is	
17	The longer side of a parallelogram is 10 cm and the shorter is 6 cm. If the longer diagonal makes an angles $30^{\circ}$ with the longer side, the length of the longer diagonal is	

18	Question Image <input type="text"/>	A. Zero matrix B. Diagonal matrix C. Column matrix D. Scalar matrix
19	Question Image <input type="text"/>	A. Orthogonal B. Involutary C. Idempotent D. Nilpotent
20	The sixth term of the sequence 1,3,12,60....is	A. 1500 B. 72 C. 2160 D. 2520