

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Range of $3 \sin x$ is _____	A. $[-3, 3]$ B. $[-1, 1]$ C. R D. None of these
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
3	$a + x$ is _____	A. A trinomial B. A binomial C. A monomial D. None of these
4	If one root of $5x^2 + 13x + k = 0$ be the reciprocal of the other root the value of k is	A. 0 B. 2 C. 1 D. 5
5	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. 1
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. direction ratios B. direction cosines C. direction angles D. none of these
7	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. square root function B. identity function C. linear function D. quadratic function
8	The coordinates of a point which trisects segment joining (0,0) and (9,12) are:	A. (4,3)(8,6) B. (4,3)(6,8) C. (3,4)(6,8) D. (3,4)(8,6)
9	In a country, 55% of the male population has houses in cities while 30% have houses both in cities and in village. Find the percentage of the population that has house only in villages.	A. 45 B. 30 C. 25 D. 50
10	The point _____ is in the solution of the inequality $2x + 3y < 5$	A. (1,1) B. (2,2) C. (0,1) D. (0,2)
11	The equation: $x^2 + y^2 + 2gx + 2fy + c = 0$, represents	A. pair of lines B. a circle C. a general second degree equation D. a hyperbola
12	If A is skew Hermitian Matrix then which of the following is not skew Hermitian matrix	A. A ² B. A ⁵ C. A ³ D. A ⁷
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 6 B. 360 C. 120 D. 24
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Closure law of addition B. Closure law of multiplication C. Commutative law of addition D. Commutative law of multiplication
15	The position vector of the point P(a, b, c) is	
16	$A = B$ if	D. A is equivalent to B
17	$(x + 2)^2 = x^2 + 4x + 4$ is	A. A linear equation B. A cubic equation C. A quadratic equation D. None

18	The sum even binomial coefficient of $(3+2x)^5$ is _____ term	A. 16 B. 30 C. 8 D. 32
19	Question Image <input type="text"/>	
20	$f(x) = 3x^2 + 1$ is:	A. an even function B. an odd function C. an even and implicit function D. neither even nor a odd
