

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. parallel vectors B. perpendicular vectors C. concurrent vectors D. collinear vectors
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
3	$x = 1$ is in the solution of the inequality	A. $x + 1 > 0$ B. $x - 2 > 0$ C. $3x - 1 < 0$ D. $x + 2 < 0$
4	The term involving x^4 in the expansion of $(3 - 2x)^7$ is	A. 120 B. 1512 C. 1250 D. 15120
5	$\sqrt{11}$ is	A. an irrational number B. Rational number C. odd number D. Negative number
6	If the intersecting plane is parallel to a generator of the cone, but intersects its one nappe only, the curve of intersection is	A. a circle B. an ellipse C. a parabola D. a hyperbola
7	The three consecutive numbers a, \sqrt{ab}, b are in	A. G.P B. H.P C. G.M D. None of these
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
10	If in a set of real no a is additive identity then	A. $a+a = 2a$ B. $a+a = 1$ C. $a+a = 0$ D. None of these
11	There are 50 students in a class out of these 38 used desktop computers, 16 out of these used laptop. It is noted that five student neither use laptop or computer. The students having both laptop and computer are A. Based on the information find out the greatest value of A	A. 36 B. 4 C. 16 D. 30
12	$(a,b) + (-a,-b) =$	A. (0,0) B. (a,b) C. (-a,-b) D. (1,1)
13	The standard parabolic form of the equation $f(x) = x^2 + 4x + 1$ is	A. $x(x+4)+1$ B. $(x+2)^2 - 3$ C. $(x+4)^3 + 9$ D. $x(x-2)^2 + 1$
14	If $a \neq 0, b \neq 0$ and $ a+b = a-b $, then vectors a and b are:	A. Parallel to each other B. Perpendicular to each other C. Inclined at 60° D. neither parallel nor perpendicular
15	If $A = [a_{ij}]_{m \times p}$ and $B = [a_{ij}]_{p \times n}$ then order of BA is	A. $m \times n$ B. $p \times n$ C. $n \times m$ D. None of these
16	How many numbers are there between 103 and 750 which are divisible by 6	A. 125 B. 107 C. 108 D. 113
17	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
18	Question Image <input style="width: 500px; height: 20px;" type="text"/>	

19	The set $\{1, -1, i, -i\}$ form a group under	A. Addition B. Multiplication C. Subtraction D. None
20	$\sqrt{x} = \text{_____}$ if is a prime number	A. Rational no B. Natural no C. Irrational no D. Complex no
