ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The sides of a right angled triangle are in A.P The ratio of sides is	A. 1:2:3 B. 3:4:5 C. 2:3:4 D. 5:8:3
2	The equation (cos p - 1)x^2+ x (cos p) + sin p = 0 in the variable x, has real roots, then p can take any value in the interval	A. (0, 2π) B. (-π, -0) C. (0,π) D. None of these
3	The number of divisors of 1029, 1547 and 122 are in	A. A.P. B. G.P. C. H.P. D. None of these
4	A point (x,y) which satisfy a linear inequality in two variables form its	A. Solution B. Domain C. Range D. None
5	The general term in the expansion of (a+x)n is	A. (r-1)th term B. (r+1)th term C. rth term D. none
6	Which of the following is a scalar.	A. electric field B. magnetic field C. weight D. mass
7	Question Image	A. parallel vectors B. perpendicular vectors C. concurrent vectors D. collinear vectors
8	3/2 is	A. An irrational number B. Whole number C. A positive integer D. A rational number
9	Question Image	A. A rational number B. An irrational number C. An odd number D. A prime number
10	Such fraction which can not be written in the form ofp⁄q where p,q and q≠ 0,such fractions are called.	A. Fractinal numbers B. Rational Numbers C. Even Numbers D. Whole Numbers
11	Question Image	A. A B. 0 C. Unit vector D. None
12	A card is drawn from a pack of cards numbered 2 to 53. the probability that the number on the card is prime number less than 20 is	A. 2 / 13 B. 4 / 13 C. 5 / 13 D. 8 / 13

13	Find the geometric mean between 4 and 16	
14	Question Image	
15	$w^{28} + w^{38} =$ _____	A. 0 B. 1 C. w D. -1
16	(7,9) +(3,-5) =	A. (4,4) B. (10,4) C. (9,-5) D. (7,3)
17	The value of x which is unchanged by the mapping in the function defined by f ; x $x^2 + 5x - 5$ for x> 0 is	A. 1 B. 5 C. -5 D. -1
18	The set of all points in the plane that are equally distant from a fixed point is called a	A. parabola B. ellipse C. hyperbola D. circle
19	Question Image	D. none of these
20	If $z_1 = \sqrt{-36}$,$z_2 = \sqrt{-25}$,z3 =$\sqrt{-16}$ then	A. 15 B. 15i C. -15i D. -15