

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The ortho center of triangle whose vertices are $(0,0)(3,0)(0,4)$ is	A. (0,0) B. (1,1) C. (2,2) D. (3,3)
2	An even function is symmetric about the line	A. y = x B. x = 0 C. y = -x D. y = 0
3	The period of the trigonometric function $y = \sin x \cos x$ is	A. 2π B. π C. 4π D. π / 2
4	In (x +iy) y is called as	A. Imaginary part B. Complex number C. Real part D. None of above
5	A bag contains 5 white, 7 red and 5 black balls. If four balls are drawn one by one with replacement, the probability that none is white is	A. (11/16) ² B. (5/16) ² C. (11/16) ⁴ D. (5/16) ⁴
6	The number of subset of {0} is	A. 1 B. 2 C. 3 D. None
7	Union of the sets of rational and irrational numbers is called 6th set of	A. Natural numbers B. Real numbers C. Whole numbers D. Prime numbers
8	$\sin -1(\sin 2\pi/3) =$	A. π/2 B. 2π/3 C3π/2 D. π/3
9	If x^2 - 7x + a has remainder 1 when divided by x + 1, then a =	A7 B. 7 C. 0 D. None of these
10	Period of sin x is	
11	Question Image	A. a sin(ax + b) + c B a sin(ax + b) + c
12	(ABC)' =	A. CBA' B. CBA C. C' B' A' D. None of these
13	A box contains 10 red 30 white and 20 black marbles When a marble is drawn at random the probability that it is either red or white is	A. 1/6 B. 1/3 C. 1/2 D. 2/3
14	A circle which touches one side of a triangle externally and the other two sides produced is called	A. In-circle B. Circum cirle C. Escribed circle D. None of these
15	The symbol shall be used both for equation and identity	A.
16	For all positive integral value of $n,3^{n}$ < $n!$, when	A. n> 6 B. n< 6 C. n<11 D. n>11
17	Question Image	
		A O.d.

18	The number of arbitrary constants in the general solution of a differential equation is equal to the different equation	B. Degree C. Variables D. All are correct
19	The area of the circle centred at (1, 2) and passing through (4, 6) is	
20	G is geometric mean between a and b if a, G, b is	A. A.P. B. G.P. C. H.P. D. None of these