

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The general value of θ satisfying the equation $2 \sin^2\theta - 3 \sin\theta - 2 = 0$ is	
2	The probability to get an odd number in a dice thrown once is	A. 6 B. 1 C. 1/6 D. 1/2
3	For $f(x) = x^2 + px + 1$, if $f(3) = 3$ then $P =$	A. 3/7 B. -2/5 C. -7/5 D. -7/3
4	If a_1, r and a_n are the first term, common ratio and the n th term respectively of a G. P. then $a_n =$	A. $a ₁ r ⁿ$ B. $a ₁ r ⁿ⁻¹$ C. $a ₁ r ⁿ⁺¹$ D. $a ₁ r$
5	$f(x)g(x) - \int g(x) f'(x) dx$ is equal to	A. $\int f(x)g'(x)dx$ B. $\int f'(x)g(x)dx$ C. $\int f'(x)g(x)'dx$ D. $\int f(x)g(x)dx$
6	Question Image <input style="width: 200px; height: 20px;" type="text"/>	A. Orthogonal B. Involutary C. Idempotent D. Nilpotent
7	If $A = [a_{ij}]_{m \times n}$ 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
8	A _____ divides the plane into left and right half planes.	A. Vertical line B. Horizontal line C. Non vertical line D. Inequality
9	Question Image <input style="width: 200px; height: 20px;" type="text"/>	
10	The area of circle of unit radius =	A. 0 B. 1 C. 4 D.
11	Domain of $\sec\theta$ is	
12	If the roots of $ax^2 + b = 0$ are real and distinct then	A. $ab > 0$ B. $a = 0$ C. $ab < 0$ D. $a > 0, b > 0$
13	If p and q are two statements then their biconditional ' p if q ' is denoted by	
14	Considering Cosine Rule of any triangle ABC, possible measures of angle A includes	A. Angle A is obtuse B. Angle A is acute C. Angle A is right-angle D. All of above
15	The additive inverse of $2/3$ is	A. 3/2 B. -2/3 C. -3/2 D. 0
		A. 2π C. -

16	The period of $3 \sin x$ is	B. 9π C. 3π D. 5π
17	Which of the following does not represent absolute value of a vector	A. magnitude B. length C. norm D. number
18	Gooch crucible is made of :	A. Brass. B. Porcelain. C. Bronze. D. Gold.
19	For any equilateral $\triangle R : \eta : r_1 : r_2 : r_3 =$	A. 1:2:3:4:5 B. 1:2:3:3:3 C. 1:2:4:4:4 D. 2:1 :2 :2 :2
20	The process of finding a function whose derivative is given is called a	A. Differentiation B. Integration C. Differential D. None