

ECAT Pre General Science Mathematics Online Test

Sr	Questions	Answers Choice
1	What is the circular measure of the angle between the hands of a watch at 4 O'clock	
2	The probability to get an odd number in a dice thrown once is	A. $\frac{1}{2}$ B. $\frac{1}{6}$ C. $\frac{1}{3}$ D. 2
3	Question Image	A. Rational B. Irrational C. Non-real D. Zero
4	Question Image	
5	A rule that assigns to each elements x in X a unique element y in Y is called a _____	A. domain B. range C. function D. none of these
6	H.M. between 3 and 7 is	
7	Question Image	
8	Question Image	
9	Question Image	
10	$n!/(n-1)!$ =	A. n B. $n!$ C. $(n-1)!$ D. $0!$
11	Question Image	A. 1 B. 3 C. $2-i$ D. -1
12	What is the period of $5 \cot x$ =?	A. π B. $-\pi$ C. $\pi/2$ D. 2π
13	If $y = \sin(ax+b)$ then $y^4 =$ _____:	A. $\sin^4(ax+b)$ B. $a^4 \sin(ax+b)$ C. $a^4 \cos(ax+b)$ D. None of these
14	The angles with some initial and terminal sides are called	A. Quadrantal angles B. Coterminal angles C. Allied angles D. None
15	$A \cup (A \cap B) =$ -----	A. B B. A C. $A \cup B$ D. None of these
16	The direction cosines of y -axis are	A. 1, 0, 0 B. 0, 1, 0 C. 0, 0, 1 D. 1, 1, 1
17	Question Image	
18	The circle $(x-2)^2 + (y+3)^2 = 4$ is not concentric with the circle	A. $(x-2)^2 + (y+3)^2 = 9$ B. $(x+2)^2 + (y-3)^2 = 4$ C. $(x+2)^2 + (y-3)^2 = 8$ D. $(x-2)^2 + (y+3)^2 = 5$

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Question Image

D. none of these

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There may be _____ feasible solution in the feasible region

A. Infinite

B. Finite

C. Defined

D. None of above