

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	$\sin^{-1}(-x) =$	A. $\cos^{-1} \frac{1}{x}$ B. $-\sin^{-1} X$ C. $\cot^{-1} X$ D. None of these
2	If $a, b = 0$ then	A. $a \parallel b$ B. $a \perp b$ C. $a = b$ D. None
3	Question Image	
4	Name the property used in $a(b-c) = ab - ac$	A. commutative property of multiplication B. distributive property of multiplication C. associative property of multiplication D. multiplicative inverse
5	For $n \in \mathbb{N}, 2^{n-2} > n$ is to only when	A. $n < 2$ B. $n \leq 4$ C. $n \geq 4$
6	Question Image	
7	If \underline{a} and \underline{b} are two vectors then $\underline{a} + \underline{b} =$	A. $\underline{b} + \underline{a}$ B. $\underline{b} - \underline{a}$ C. \underline{ab} D. $\underline{a}^{\wedge} \underline{b}$
8	If $\cos \theta = \frac{9}{41}$ and $\sin \theta < 0$, the $\tan \theta =$	A. $\frac{41}{9}$ B. $-\frac{40}{9}$ C. $\frac{9}{10}$ D. $\frac{3}{20}$
9	Question Image	A. $\frac{1}{2}$ B. 2 C. $\frac{1}{4}$ D. 4
10	Two unbiased dice are thrown. The probability that the total score is > 5 is	A. $\frac{1}{18}$ B. $\frac{7}{18}$ C. $\frac{13}{18}$ D. $\frac{11}{18}$
11	Sequence also called.....	A. Series B. Function C. progressions D. Elements
12	The value of $\sin^{-1} \frac{5}{13}$ is equal to	A. $\cos \frac{5}{13}$ B. $\tan^{-1} \frac{5}{12}$ C. $\cos^{-1} \frac{5}{12}$ D. $2 \cos^{-1} \frac{4}{5}$
13	The multiplicative inverse of -1 in the set $\{-1, 1\}$ is	A. 1 B. -1 C. ± 1 D. 0 E. Does not exist
14	Name the property used in $4 \times (5 \times 8) = (4 \times 5) \times 8$	A. Associative property of addition B. Associative property of multiplication C. Additive identity D. Multiplicative identity
15	The graph of a linear function is	A. a circle B. triangle C. a straight line D. none of these

16	The negative square root of 9 can be written as:	<ul style="list-style-type: none"> B. $\sqrt{9}$ C. $\sqrt{18}$ D. $-\sqrt{18}$
17	If $ ai + (\alpha+1)j + 2k = 3$ then value of α is	<ul style="list-style-type: none"> A. 1,2 B. -1,-2 C. 1,-2 D. -1,2
18	Which element is the additive inverse of (a,b) in Complex numbers	<ul style="list-style-type: none"> A. $(a,0)$ B. $(0,b)$ C. (a,b) D. $(-a,-b)$
19	The difference of two consecutive terms of an A.P is called the	<ul style="list-style-type: none"> A. Common difference B. Common ratio C. Geometric series D. Geometric mean
20	Question Image <input type="text"/>	<ul style="list-style-type: none"> A. 1 B. 0