

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Question Image	D. all
2	The upper $\frac{3}{4}$ the portion of a vertical pole subtends an angle $\tan^{-1}\frac{3}{5}$ at a point in the horizontal plane through its foot and at a distance 40 m from the foot. A possible height of the vertical pole is	A. 20 m B. 40 m C. 60 m D. 80 m
3	The principal value of $\sin^{-1}\sqrt{\frac{3}{2}}$ is	A. $-\frac{\pi}{3}$ B. $\frac{\pi}{3}$ C. $2\frac{\pi}{3}$ D. $\frac{\pi}{2}$
4	Additive inverse of $-a - b$ is	A. a B. $-a + b$ C. $a - b$ D. $a + b$
5	Question Image	D. none of these
6	$\sin^{-1} x =$	A. $\tan^{-1} x$ B. $\operatorname{Cosec}^{-1} x$ C. $\operatorname{Cosec} x$ D. $\operatorname{cosec}^{-1}(1/x)$
7	To study conics, Pappus used the method of	A. analytic geometry B. solid geometry C. Euclidean geometry D. none of these
8	If A and B are two sets then any subset R of $B \times A$ is called	A. relation on A B. relation on B C. relation from A to B D. relation from B to A
9	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
10	probability of a certain event is	A. 0 B. -1 C. 1 D. ∞
11	If n is not natural number, then the expansion $(1 + x)^n$ is valid for	
12	Question Image	
13	A non-homogeneous linear system $AX = B$ has no solution if	A. $ A = 0$ B. $ A \neq 0$ C. Rank (a) = no of variables D. Rank $>$ no of variables
14	$56^\circ = \dots\dots\dots$ radians	A. 1.25 B. 2.56 C. 95 D. 0.98
15	The modulus of $12-5i$ is:	A. 7 B. 13 C. $\sqrt{7}$ D. 119
16	Question Image	
17	Any whole number can be written as a product of factors which are	A. Odd numbers B. Prime number C. Rational number D. Even number
18	If the sum of co-efficient in the expansion of $(a+b)^n$ is 4096, then the greatest co-efficient in the expansion is	A. 1594 B. 792 C. 924

19

Question Image

- A. A.P.
- B. G.P.
- C. H.P.
- D. None of these

20

How many 3 digit numbers can be formed by using each one of the digit 2, 3, 5, 7, 9 only once?

- A. 15
- B. 24
- C. 60
- D. 120