

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The $\sqrt{\quad}$ is used for the	A. Positive square root B. Negative square root C. +ve and -ve square root D. Whole number
2	The principal value of $\sin^{-1}(-1/2)$	A. $\pi/3$ B. $\pi/4$ C. $\pi/6$ D. $-\pi/6$
3	The distance from the point P(6,-1) to the line $6x - 4x + 9 = 0$ is:	A. 5/7 B. $\sqrt{52}/7$ C. 2/48 D. $49/\sqrt{52}$
4	$(x + 2)^2 = x^2 + 4x + 4$ is	A. A linear equation B. A cubic equation C. A quadratic equation D. None
5	Domain of $\cot x$ is _____	
6	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
7	If ΔABC is right, law of cosine reduce to	A. Law of sine B. Law of tangent C. Phythogorous theorem D. Hero's formula
8	The conjunction of $3 > 5$, and $5 > 9$, is	A. False B. True C. Disjunction D. Unknown
9	Which of the following statement is true	A. $16^{1/3} \times 16^{1/6} = 4$ B. $9^{1/3} \times 9^{1/6} = 8^{1/8}$ C. $9^{1/3} \times 9^{1/6} = 9^{1/8}$ D. All of these
10	$\neg p$ is the	A. Implication of p B. disjunction of p C. negation of p D. conjunction of p
11	$f(x) = ax^2 - 3x - 5$, and $f^{-1}(2) = 9$, a is equal to	A. 2 B. 3 C. -2 D. 4
12	Question Image	
13	The solution set of $x < 4$ is	A. $\{x \mid x < 4\}$ B. $\{x \mid x \leq 4\}$ C. $\{x \mid x < 4\}$ D. $\{x \mid x \leq 4\}$

text-align: center; background-color: rgb(255, 255, 248);"><i>∞</i>< x < 2
D. -<i>∞</i>> x > 2

14 The last term of $(1+2x)^{-2}$

- A. $(-1)^{-2} (2x)^{-2}$
- B. $(-1)^{-4} (-2x)^{-2}$
- C. $(-1)^{-3} (2x)^{-3}$
- D. Does not exist

15 Period of $\tan 4x$ is _____

16 Question Image

17 Question Image

- D. None of these

18 Question Image

- A. perpendicular vectors
- B. concurrent vectors
- C. parallel vectors
- D. none of these

19 Question Image

- A. 1, 1/2, 0
- B. 1, 2, 1
- C. 1, 2, 3
- D. 1, 2, 0

20 The set $\{ \{a,b\} \}$ is

- A. Infinite set
- B. Singleton set
- C. Two points set
- D. Empty set