

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Which of the following is an identity matrix?	D. none of these
2	In a country, 55% of the male population has houses in cities while 30% have houses both in cities and in village. Find the percentage of the population that has house only in villages.	A. 45 B. 30 C. 25 D. 50
3	Question Image <input style="width: 50%; border: 1px solid #ccc;" type="text"/>	A. $x = 3$ B. $x = 1/5$ C. $x = 0$ D. None of these
4	Question Image <input style="width: 50%; border: 1px solid #ccc;" type="text"/>	A. Commutative law of multiplication B. Closure law of multiplication C. Associative law of multiplication D. Multiplication identity
5	The value of $\sin [\arccos (-1/2)]$ is	
6	The range of the principle cot function is	
7	In R the left cancellation property w.r.t addition is	
8	The additive inverse of 0 is	A. 1 B. -1 C. 0 D. Does not exist
9	If $A \cap B = B$, then $n(A \cap B)$ is equal to	A. $n(a)$ B. $n(a) + n(c)$ C. $n(c)$ D. None of these
10	The set X is	A. Proper Subset of X B. Not A subset of X C. Improper Subset of X D. None of these
11	The statements of the form "If p then q" are called	A. hypothesis B. conditional C. disjunction D. conjunction
12	The domain and range of a trigonometric function can be allocate by their	A. graph B. Continuity C. Discontinuity D. Periods
13	The approximate percentage increase in the volume of a cube if the length of its each edge changes from 5 to 5.02 is	A. 1.2% B. 1.5% C. 0.16% D. 100.16%
14	Question Image <input style="width: 50%; border: 1px solid #ccc;" type="text"/>	A. $\cos x + c$ B. $-\sin x + c$ C. $-\cos x + c$ D. $\sin x + c$
15	Question Image <input style="width: 50%; border: 1px solid #ccc;" type="text"/>	A. $\frac{\pi}{3}$ B. $\frac{\pi}{4}$ C. $\frac{\pi}{6}$ D. 0
16	The magnitude of a vector can never be	A. Zero B. Negative C. Positive D. None of these
17	Question Image <input style="width: 50%; border: 1px solid #ccc;" type="text"/>	A. At B. -A C. A

18

Question Image

- A. 6
- B. 360
- C. 120
- D. 24

19

Question Image

20

Question Image

- A. 1
- B. 2
- C. 0
- D. 4