

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The set of whole numbers is subset of	A. The set on integers B. The set of natural numbers C. {1, 3, 5, 7, ...} D. The set of prime numbers
2	Domain of $\sec\theta$ is	
3	If $z=(x,y)$ then z has no multiplicative inverse when	A. $x \neq 0, y = 0$ B. $x = 0, y = 0$ C. $x = 0, y \neq 0$ D. None of these
4	Question Image	
5	If $ax^2+ bx + x = 0$ is satisfied by every value of x, then	A. $b = 0, c = 0$ B. $c = 0$ C. $b = 0$ D. $a = b = c = 0$
6	Deductive logic in which every statement is regarded as true or false and there is no other possibility is called	A. deductive logic B. inductive logic C. Aristolian logic D. non-Aristolian logic
7	Question Image	
8	Question Image	A. 0 B. -1 C. 1/2 D. 1
9	$(ABC)' =$	A. CBA' B. CBA C. $C' B' A'$ D. None of these
10	$Q \cup Q' =$	A. Q B. Q' C. N D. R
11	Question Image	
12	Question Image	
13	The law of consines is	
14	What is the period of $\sin 2x/3 \cos 4x$?	A. π B. 2π C. $\pi/2$ D. $\pi/3$
15	A combination lock on a suitcase has 3 wheels each labeled with nine digits from 1 to 9. If an opening combination is a particular sequence of three digits with no repeats, the probability of a person guessing the right combination is	A. 1 / 500 B. 1 / 504 C. 1 / 252 D. 1 / 250
16	Question Image	
17	Group of none-singular matrices under multiplication is	A. None-Abelian group B. Semi group C. Abelian group D. None of these
18	The domain of $y = \sqrt{(x^2-9)}$ is	A. R B. $(0, +\infty)$ C. $(-\infty, -3) \cup (3, +\infty)$ D. $(0, \infty)$
19	If two balls are drawn from a bag containing 3 white, 4 black and 5 red balls. Then the probability that the drawn balls are of different colours is	A. 1 / 66 B. 3 / 66 C. 19 / 66 D. 13 / 66

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Question Image

- A. The law of cosines
- B. The law of sines
- C. The law of tangents
- D. None of these