

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. 9/4 B. 4/9 C. 1 D. None of these
2	If $C = \{p/p < 18, p \text{ is a prime number}\}$, then $C =$	A. $\{2,3,4,\dots,17\}$ B. $\{2,4,6,8,\dots,16\}$ C. $\{1,3,5,7,9,11,13,15,17\}$ D. $\{3,6,9,12,15\}$
3	Which conjunction is not true ?	
4	if one root of the equation $ix^2 - 2(i + 1)x + (2 - i) = 0$ is $2 - i$ then the other root is	A. $-i$ B. $2 + i$ C. i D. $2 - i$
5	The greater part of our knowledge, is based on	A. deduction B. induction C. conjunction D. disjunction
6	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. 0 B. 1 C. -1 D. None of these
7	Question Image <input style="width: 100%; height: 20px;" type="text"/>	
8	The area of a sector of a circular region of radius r is	A. $2\pi r$ B. πr^2 C. $\frac{1}{2}\pi r^2$ D. $\pi/6$
9	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. Closure law of addition B. Associative law of addition C. Additive inverse D. Additive identity
10	The positive real number which is the measure of the length of a vector is called the	A. Unit vector B. Modulus C. Inverse D. None of these
11	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. $49/\sqrt{52}$
12	A card is drawn from a pack of cards numbered 2 to 53. the probability that the number on the card is prime number less than 20 is	A. 2 / 13 B. 4 / 13 C. 5 / 13 D. 8 / 13
13	A person standing on the bank of a river finds that the angle of elevation of the top of a tower on the opposite bank is 45° . then which of the following statements is correct?	A. Breadth of the river is twice the height of the tower B. Breadth of the river an the height of the tower are the same C. Breadth of the river is half of the height of the tower D. None of these
14	Question Image <input style="width: 100%; height: 20px;" type="text"/>	
15	$\forall x, y \in R$, either $x = y$ or $x > y$ or $x < y$ is	A. Transitive property B. Reflexive property C. Trichotomy property D. None of these
16	$\cos^2 x + \sin^2 x$	A. an even function B. an odd function C. an even and implicit function D. neither even nor a odd

17 General solution of $\tan 5\theta = \cot 2\theta$ is

18 Question Image

19 The set $\{0, -1\}$ hold closure property under

- A. Addition
- B. Both a & c
- C. Multiplication
- D. None of these

20 Question Image

- A. range of f
- B. domain of f
- C. both (a) and (b)
- D. none of these