


## ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	In a triangle ABC, if angle A = $72^\circ$ , angle B = $48^\circ$ and c = 9 cm then $\hat{C}$ is	A. <span style="font-size: 0.95em;">69°</span> B. <span style="font-size: 0.95em;">66°</span> C. <span style="color: green;">60°</span> D. <span style="font-size: 0.95em;">63°</span>
2	Question Image	A. -1 B. 1 C. <span style="color: green;">2</span> D. -2
3	$\{x x \in \mathbb{R} \wedge x \neq x\}$ is a	A. Infinite set B. Null set C. Finite set D. <span style="color: green;">None of these</span>
4	Question Image	A. 2 B. $-\frac{3}{2}$ C. 1 D. <span style="color: green;">0</span>
5	Question Image	A. 5 C. <span style="color: green;">-5</span> D. none
6	If a = [1,4,3] and B= [2,-1,5] athen the mid point M of AB is:	A. [1,1,1.5] B. [2,2,1.5] C. <span style="color: green;">[1.5,1.5,4]</span> D. None of these
7	A function from A to B is called on-to function, if its range is	A. A B. <span style="color: green;">B</span> C. A and B D. neither A nor B
8	A person standing on the bank of a river observes that the angle of elevation of the top of a tree on the opposite bank of the river is $60^\circ$ and when he retires 40 meters away from the tree the angle of elevation becomes $30^\circ$ . The breadth of the river is	A. 40 m B. 30 m C. <span style="color: green;">20 m</span> D. 60 m
9	Question Image	A. Commutative law of addition B. Associative law of addition C. <span style="color: green;">Additive identity</span> D. Additive inverse
10	A relation in which the equality is true only for some values of the unknown is called	A. An identity B. <span style="color: green;">An equation</span> C. A polynomial D. None
11	_____ invented a symbolic way to write the statement "y is a function of x" as $y = f(x)$	A. Leibniz B. Newton C. <span style="color: green;">Euler</span> D. None of these
12	The maximum value of the quadratic function $f(x) = -2x^2 + 20x$ , is	A. 4 B. 3 C. <span style="color: green;">50</span> D. 7
13	$i^{(4n+2)} =$ _____	A. 1 B. i C. <span style="color: green;">-1</span> D. -i
14	Domain of $\sec \theta$ is	
15	arb mean	A. <span style="color: green;">a is related to b</span> B. b is related to a C. a is reciprocal of b D. a is not related to b

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17      If  $n$  is odd then the middle terms in the expansion of  $(a + x)^n$  are

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19      If one root of the equation  $x^2 - 3x + a = 0$  is 2 then  $a =$  \_\_\_\_\_

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

20      

- A. A, B, C are coincident
- B. A, B, C are collinear
- C. Both A and B
- D. None of these