

## ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	$1 + 2 + 3 + \dots + n = \underline{\hspace{2cm}}$	
2	If $x^2 - 7x + a$ has remainder 1 when divided by $x + 1$ , then $a = \underline{\hspace{2cm}}$	A. -7 B. 7 C. 0 D. None of these
3	Question Image <input style="width: 100%; height: 20px;" type="text"/>	
4	How many types of an equation	A. 1 B. 3 C. 2 D. None
5	A circle passing through the vertices of any triangle is called <u>        </u>	A. In circle B. Circum circle C. Escribed circle D. None of these
6	$\forall x, y, z \in \mathbb{R}$ and $z \neq 0$ , then	A. $x > y \Rightarrow xz > yz$ B. $x < y \Rightarrow xz < yz$ C. $x > y \Rightarrow xz > yz$ D. None of these
7	The vertex of the graph of the quadratic function $f(x) = x^2 - 10$ , is	A. (0, -10) B. (-10, 0) C. (10, 0) D. (0, 10)
8	Onto function is also called	A. Bijective function B. Injective function C. Surjective function D. None of these
9	The 6th term of an arithmetic sequence whose first term is 3 and common difference in zero is	A. 18 B. 6 C. 3 D. 0
10	E-radius corresponding to $\angle A$ is	
11	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. 2 B. 4 C. 8 D. 12
12	$\tan^{-1} x = \underline{\hspace{2cm}}$	
13	Which of the following is surjective	
14	By expressing $\cos 113^\circ$ in terms of trigonometrical ratios, answer will be	A. $\cos 76^\circ = -0.7093$ B. $\cos 65^\circ = -0.4258$ C. $\cos 67^\circ = -0.3907$ D. $\cos 62^\circ = -0.8520$
15	In $\mathbb{R}$ , the multiplicative inverse of $a$ is	A. 0 B. 1 C. $-a$ D. $1/a$
16	$(2 + w)(2 + w^2) = \underline{\hspace{2cm}}$	A. 1 B. 2 C. 3 D. 0
17	$2\pi$ is the period of	A. $\sin x$ B. $\tan x$ C. $\cot x$ D. all circular function

18	Question Image	A. 1 B. 0 C. cx D. c
19	Question Image	A. perpendicular vectors B. concurrent vectors C. parallel vectors D. none of these
20	Question Image	