

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	$i^3 =$	A. -1 B. i C. -i D. 1
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
3	In a class of 100 students, 60 drink tea, 50 drink coffee and 30 drink both. A student from his class is selected at takes at last one of 2 drinks is	A. 2 / 5 B. 3 / 5 C. 4 / 5 D. None of these
4	For an arithmetic series to be convergent it is necessary that the series has	A. Finite terms B. $d < 0$ C. Infinite terms D. None of these
5	$\sin^{-1} x =$	A. $\tan^{-1} x$ B. $\operatorname{Cosec}^{-1} x$ C. $\operatorname{Cosec} x$ D. $\operatorname{cosec}^{-1}(1/x)$
6	The function $f(x) = x $ is a/an _____ function	A. Even B. Odd C. Both even as well as odd D. Neither even nor odd
7	n different objects can be arranged taken all at a time in _____	A. $(n + 1)!$ ways B. $(n - 1)!$ ways C. $n!$ ways D. n ways
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. -a -b -c B. 1 C. 0 D. -1
9	Which of the following is a scalar.	A. electric field B. magnetic field C. weight D. mass
10	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
11	$(x + 3)(x + 4) = x^2 + 7x + 12$ is _____	A. Quadratic equation B. Linear equation C. Cubic equation D. Identity
12	The set $\{1, -1, 1, -1\}$, form a group under	A. Addition B. Multiplication C. Subtraction D. None
13	$[i, j, k]$	A. 0 B. 2 C. 1 D. -2
14	if $A = \{x \in \mathbb{Q} \mid 0 < x < 1\}$, the A is	A. Infinite set B. Finite set C. Set of rational numbers D. Set of real numbers
15	The graph of a quadratic function is	A. Circle B. Straight line C. Parabola D. Triangle
16	$i^3 =$	A. -1 B. i C. -i D. 1

17	Question Image	
18	Corner point of the system $x - y \leq 2, x + y \leq 4, 2x - y \leq 6, x \geq 0, y \geq 0$	<p>A. (1,4) B. (4,2) C. (3,1) D. (4,1)</p>
19	The expansion of $(1 + 2x)^{-2}$ is valid if	<p>A. $x < 1/2$ B. $x < 1$ C. $x < 2$ D. $x < 3$</p>
20	ln-radius is denoted by	<p>A. r B. η C. r^2 D. R</p>