

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. A rational number B. An irrational number C. An odd number D. A prime number
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Reflexive property B. Symmetric property C. Cancellations property w.r.t. addition D. Transitive property
3	If $u = xi + yj$, then $ u $	A. $x^2 + y^2$ B. $(x^2 + y^2)^2$ C. $x^2 - y^2$ D. $\sqrt{x^2 + y^2}$
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
5	What is the period of $6 \sin x$?	A. π B. $-\pi$ C. $\pi/2$ D. 2π
6	A function $f(x)$ is said to be the periodic function if for all x in the domain of f , there exists a smallest positive number p such the $f(x + p) =$ _____	A. $f(p)$ B. $f(x)$ C. $f(0)$ D. None of these
7	$3j \cdot kxi$	A. 0 B. 1 C. 3 D. 9
8	The probability that a slip of numbers divisible by 4 is picked from the slips of number 1,2,3,4,.....10 is	A. $1/5$ B. $2/5$ C. $1/10$ D. $3/10$
9	For any integer k , $w^n =$ _____ when $n = 3k$	A. 1 B. 2 C. 0 D. -4
10	The vertex of the graph of the quadratic function $f(x) = -x^2 + 6x + 1$, is	A. (-3, 10) B. (-3, -10) C. (3, 10) D. (3, -10)
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. $-1 - w^2$
12	The modulus of a vector $-i + k$ is:	A. $\sqrt{3}$ B. 1 C. $\sqrt{2}$ D. ∞
13	$r + 3 > 5$ then which is true	A. $r + 2 > 4$ B. $r + 2 < 4$ C. $r + 2 = 4$ D. None
14	$2x + 3y > 4$ is a linear inequality in	A. one variable B. two variables C. three variables D. none of these
15	Which element is the additive inverse of (a, b) in Complex numbers	A. $(a, 0)$ B. $(0, b)$ C. (a, b) D. $(-a, -b)$
16	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 100 B. -100 C. 0

17	Question Image	<p>A. π</p> <p>B. $\frac{\pi}{6}$</p> <p>C. $\frac{\pi}{2}$</p> <p>D. 2π</p>
18	Question Image	<p>A. Natural numbers</p> <p>B. Whole numbers</p> <p>C. Integers</p> <p>D. Rational numbers</p>
19	Question Image	<p>A. A natural number</p> <p>B. A rational number</p> <p>C. An irrational number</p> <p>D. A whole number</p>
20	The set Q	<p>A. Forms a group under addition</p> <p>B. Does not form a group</p> <p>C. Contains no additive identity</p> <p>D. Contains no additive inverse</p>