

## ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Question Image	A. 0 B. 1 C. -1 D. 2
2	Question Image	
3	Range of $2 \tan x$ is _____	A. $[-2, 2]$ B. $-1 \leq x \leq 1$ C. $R$ D. None of these
4	$a + x$ is _____	A. A trinomial B. A binomial C. A monomial D. None of these
5	How many necklaces can be made from 6 beads of different colours?	A. 120 B. 60 C. 24 D. 15
6	Let the real valued function F and G be defined by $f(x) = 2x + 1$ and $g(x) = x^2 - x$ . The expression $fg(x)$ is given by?	A. $2x^2 - x + 1$ B. $2x^2 - 2x + 1$ C. $2x^2 - x + 2$ D. $x^2 - x + 1$
7	If $ax^2 + bx + c = 0$ is satisfied by every value of $x$ , then	A. $b = 0, c = 0$ B. $c = 0$ C. $b = 0$ D. $a = b = c = 0$
8	If the sum of two unit vectors is a unit vector the the magnitude of their difference is	A. $\sqrt{2}$ B. $\sqrt{3}$ C. 1 D. None of these
9	10 is a even number or 0 is a natural number, then truth value of this disjunction is	A. false B. true C. not discussed D. negation of first
10	$\int f(x)$ is known as:	A. Definite itegral B. Indefinite integral C. Fixed integral D. Multiple integral
11	if $y = x^2$ then $dy/dx$ equals:	A. $2x$ B. $x/2$ C. $2x^3$ D. $x^3/2$
12	Question Image	A. 0 B. 1 D. none of these
13	If $0 = \{1, 3, 5, \dots\}$ , then $n(0) =$	A. Infinite B. Even numbers C. odd integers D. 99
14	$\sqrt{2}$ is a number	A. Rational B. Irrational C. Even D. Odd
15	On simplifying the equation $1 + \cos x / 1 + \sec x$ the result is.	A. $\sin x$ B. $\operatorname{cosec} x$ C. $\cos x$ D. $\sec x$
16	The position vector of a point $(x, y)$ in $xy$ plane is	D. none of these
17	The position vector of the point $P(a, b, c)$ is	

18

$$i^2 =$$

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

19

$(a,b) = (c,d)$  if and only if

- A.  $a=b$  and  $c=d$
- B.  $a = d$  and  $b = c$
- C.  $a = c$  and  $b = d$
- D.  $a - b = c - d$

20

Question Image

- A.  $A = x$ ,  $B = 1$
- B.  $A = 0$ ,  $B = 2$
- C.  $A = -1$ ,  $B = 1$
- D.  $A = x-1$ ,  $B = x + 1$