

ECAT Mathematics Online Test

Sr	Questions	Answers Choice
1	$p(x) = 2x^4 - 3x^3 + 2x - 1$ is polynomial of degree	A. 1 B. 2 C. 3 D. 4
2	The three consecutive numbers $a, \sqrt{ab}, b$ are in	A. G.P B. H.P C. G.M D. None of these
3	The parabola $y^2 = 4ax$ open up if	A. $a < 0$ B. $a \neq 0$ C. $a > 0$ D. All are incorrect
4	The differential equation of all st. lines which are at a constant distance to form the origin is	
5	Question Image	A. 3 B. 1 C. 2 D. 4
6	The greatest integer which divides the number $101^{100} - 1$ is	A. 100 B. 1000 C. 10000 D. 100000
7	$(n + 2)(n + 1)n =$ _____	
8	The set of natural is a semi group w.r.t	A. Addition B. Division C. Subtraction D. None of these
9	Question Image	A. $-\operatorname{cosec}^2 x$ B. $-\sec^2 x$ C. $-\operatorname{cosec} x \cot x$ D. $\operatorname{cosec} x$
10	Question Image	
11	Question Image	
12	An event having more than one sample point is called	A. Certain event B. Compound event C. Simple event D. None
13	Question Image	C. 0 D. 1
14	If the circle $x^2 + y^2 + 2gx + 2fy + c = 0$ passes through the origin then	A. $c = 0$ B. $c = -1$ C. $c = -2$ D. $c = 1$
15	Question Image	
16	Question Image	
17	$(2.02)^4$ is equal to	A. 16 B. 16.6496 C. 17 D. 18
18	Question Image	D. both a & c
19	Question Image	A. 1 B. 5 C. 7 D. 9
		A. Left half plane

- B. upper half plane
 - C. Right half plane
 - D. Lower half plane
-