

ECAT Computer Science Entry Test

Sr	Questions	Answers Choice
1	Question Image	A. 0 B. U C. $u/2$ D. $\log u$
2	Question Image	
3	Question Image	
4	Question Image	
5	Question Image	
6	Question Image	
7	Question Image	
8	Question Image	A. 1 B. $1/2$ C. 0 D. None
9	Question Image	A. y/x B. x/y C. y/z D. None
10	Question Image	
11	Question Image	A. xy B. y C. 0 D. x
12	Question Image	A. 1 B. -1 C. $-1/2$ D. $1/2$
13	Question Image	A. 2 B. 1 C. 5 D. 0
14	Question Image	A. $1/8$ B. $1/2$ C. $1/4$ D. $1/6$
15	Question Image	A. $(1, 7/3)$ B. $(1, 7/5)$ C. $(1, 11/7)$ D. $(1, 3/5)$
16	Question Image	A. $R/[0,4]$ B. $R/(0,4)$ C. $(0,4)$ D. $[0,4]$
17	Question Image	A. Does not exist because f is unbounded B. Is not attained even though f is bounded C. Is equal to 1 D. Is equal to -1
18	Question Image	A. $3/4$ B. r C. v D. None of these
		A. 0 B. 1 C. 8

19	Question Image	D. ><i><i>∞</i></i>
20	The area of circle of unit radius =	A. 0 B. 1 C. 4 D. ><i><i>π</i></i>
21	Domain of $y = \sec x$ is	A. All real numbers except $\pi/2 + n\pi$ B. R C. All negative integers D. None of these
22	Graph of the question $x^2 + y^2 = 4$ is	A. A circle B. An ellipse C. A parabola D. A square
23	Question Image	A. 1 B. 0 C. -2 D. 3
24	The range of inequality $x + 2 > 4$ is	A. (-1, 2) B. (-2, 2) C. (1, ><i><i>∞</i></i>) D. None
25	A function $F(x)$ is called even if	A. $F(x) = F(-x)$ B. F(x) = F(-x) C. $F(x) = -F(x)$ D. $2F(x) = 0$
26	The domain of $f(x) = \log x$ is	A. $[0, \text{><i>\infty</i>}]$ B. $(0, \text{><i>\infty</i>})$ C. [0, ><i><i>∞</i></i>[D. [><i><i>∞</i></i>, ><i><i>∞</i></i>]
27	Question Image	
28	Which is an explicit function	A. $y = x^2 + 2x - 1$ B. $x^2 + xy + y^2 = 2$ C. $x^2 + y^2 = xy + 2$ D. All are
29	Which is not included in the domain of $\cos^{-1}x$	A. 0 B. 1 C. -1 D. -2

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 $p(x) = 2x^4 - 3x^3 + 2x - 1$ is polynomial of degree

- A. 1
- B. 2
- C. 3
- D. 4