

Mathematics ECAT Pre Engineering Online Test

Sr	Questions	Answers Choice
1	Question Image	A. $y : x$ B. $x : y$ C. $-y : x$ D. $-x : y$
2	Question Image	A. 0 B. U C. $u/2$ D. $\log u$
3	Question Image	
4	Question Image	
5	Question Image	
6	Question Image	
7	Question Image	
8	Question Image	
9	Question Image	A. 1 B. $1/2$ C. 0 D. None
10	Question Image	A. y/x B. x/y C. y/z D. None
11	Question Image	
12	Question Image	A. xy B. y C. 0 D. x
13	Question Image	A. 1 B. -1 C. $-1/2$ D. $1/2$
14	Question Image	A. 2 B. 1 C. 5 D. 0
15	Question Image	A. $1/8$ B. $1/2$ C. $1/4$ D. $1/6$
16	Question Image	A. $(1, 7/3)$ B. $(1, 7/5)$ C. $(1, 11/7)$ D. $(1, 3/5)$
17	Question Image	A. $R/[0,4]$ B. $R/(0,4)$ C. $(0,4)$ D. $[0,4]$
18	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
19	Question Image	A. $3/4$ B. r C. $\sim$

		C. v D. None of these
20	Question Image	A. 0 B. 1 C. 8 D. ><i>∞</i>
21	The area of circle of unit radius =	A. 0 B. 1 C. 4 D. >π
22	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
23	Graph of the equation $x^2 + y^2 = 4$ is	A. A circle B. An ellipse C. A parabola D. A square
24	Question Image	A. 1 B. 0 C. -2 D. 3
25	The range of inequality $x + 2 > 4$ is	A. (-1, 2) B. (-2, 2) C. (1, ><i>∞</i>) D. None
26	A function $F(x)$ is called even if	A. $F(x) = F(-x)$ B. F(x) = F(-x) C. $F(x) = -F(x)$ D. $2F(x) = 0$
27	The domain of $f(x) = \log x$ is	A. ><i>∞</i> B. ><i>∞</i> C. [0, ><i>∞</i>[D. ><i>∞</i>, ><i>∞</i>]
28	Question Image	
29	Which is an explicit function	A. $y = x^{2/2} + 2x - 1$ B. $x^{2/2} + xy + y^{2/2} = 2$ C. $x^{2/2} + y^{2/2} = xy + 2$

D. All are

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Which is not included in the domain of $\cos^{-1}x$

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