

ECAT Pre Engineering Entry Test

Sr	Questions	Answers Choice
1	If $f(x) = \tan x$ then $f(0)$ is	A. 0 B. 1 C. 1/2
2	Question Image	A. 0 B. 1 C. 1/2
3	If $f(x) = \cos x$ then $f(0)$ is	A. 0 B. 1 C. 1/2
4	If $f(x) = x^3 - 2x^2 + 4x - 1$ then $f(2)$ is	A. 7 B16 C. 16 D9
5	Question Image	A1 B. 1 C. 2 D2
6	If $f(x) = x^3 - 2x^2 + 4x - 1$ then $f(0)$ is	A. 0 B. 1 C1 D. none of these
7	Question Image	A. 0 B. 3 C. 9 D3
8	Question Image	A. 2 B1 C. 8 D. not defined
9	Question Image	A. 0 B4 D. none of these
10	Question Image	A. 2 D. 0
11	Question Image	A. 2 B. 6
12	Question Image	A. 0 B. 1 C. 2 D. None of these
13	Which of the following is a factor of x^3 - $3x^2$ + $2x$ - 6	A. x + 2 B. x + 3 C. x - 3 D. x - 4
14	Find a if 1 is a root of the equation x^2 + ax + 2 = 0	A. 3 B3 C. 2 D. 0
15	If x - 2 is a factor of ax2- 12x + a = 2a, then a =	A5 B. 5 C. 0 D. 1
16	Question Image	A. 2 C2 D. none of these
17	If x^2 - 7x + a has remainder 1 when divided by x + 1, then a =	A7 B. 7 C. 0 D. None of these

18	If $f(x) = x^2 - x$ then $f(-2)$ is	A. 4 B. 6 C. 2 D. 0
19	If $f(x) = x^2 - x$ then $f(2)$ is	A. 4 B. 6 C. 2 D. 0
20	If $f(x) = x^2-x$ then $f(1)$ is	A. 0 B. 1 C. 2 D. 3
21	If $f(x) = x^2-x$ then $f(0)$ is	A. 0 B. 1 C. 2 D. 3
22	Two quadratic equation in which xy term is missing and the coefficients of x^2 and y^2 are equal, give a linear equation by	A. Addition B. Subtraction C. Multiplication D. Division
23	If $f(x) = -x^3$ then $f(-2)$ is	A2 B4 C8 D. 8
24	If $f(x)=x^3$ then $f(-2)$ is	A2 B4 C8 D. 8
25	The polynomial x - a is a factor of the polynomial $f(x)$ if and only if	A. f(a) is positive B. f(a) is negative C. f(a) = 0 D. None of these
26	If $f(x) = -x^2$ then $f(-2)$ is	A2 B. 2 C4 D. 4
27	The product of the four fourth roots of unity is	A. 0 B. 1 C1 D. None of these
28	If $f(x) = (-x)^2$ then $f(-2)$ is	A. 0 B. 2 C4 D. 4
29	If $f(x) = x^2$ then $f(2)$ is	A2 B. 2 C. 4 D4
30	If $f(x) = x^2$ then $f(-2)$ is	A2 B. 2 C. 4 D4