

ECAT (Pre-Eng) Mathematics Chapter 17 Functions and Limits

Sr	Questions	Answers Choice
1	Question Image	A. 2 B1 C. 8 D. not defined
2	$f(x) = \sin x + \cos^2 x \text{ is}$	A. trigonometric function B. algebraic function C. exponential function D. logarithmic function
3	Question Image	A. sin h x B. cos h x C. tan h x D. cot h x
4	If $f(x) = x^2$ then $f(-2)$ is	A2 B. 2 C. 4 D4
5	Question Image	
6	Question Image	A. image B. pre-image C. constant D. none of these
7	tan h x =	
8	Question Image	A. 2 B. 6
9	Question Image	A. images B. pre-images C. constants D. none of these
10	The function f : $x \rightarrow y$ defined as f (x) = $\alpha \forall x \in X, \alpha \in y$ is called	A. Constant function B. Polynomial function C. Identity function D. Linear function
11	f(x) = ax + b will be a constant function if	A. a = 1 , b = 1 B. a = 1 , b = 0
12	If f (x) = 2x+1 then fof (x) =;	A. 4x+3 B. 2x +3 C. 4x +1 D. None of these
13	if the value of the sphere, $v = 4/3\pi r^2$, then the which of the following statement is true?	A. r is the function of v B. v is the function of π C. π is independent variable D. None of these
14	The function discontinuous at $x = 0$ is (1) $\tan x$ (II) $\cot x$ (III) $\sec x$ (iv) $\csc x$)	A. I & III B. I & IV C. II & IV D. II & III
15	Question Image	A. 0 B. 1
10	220000	C. 2
16	The curve f(x,y) = 0 has a central symmetry if	A. f(-x,-y)=f(x,y) B. f(x,-y)=f(x,y) C. f(-x,y)=f(x,y) D. f(-x,-y)≠f(x,y)
17	A function from A to B is denoted by	A. f: $A \rightarrow B$ B. f: $B \rightarrow A$ C. f: $\rightarrow A : B$ D. f $\rightarrow A \rightarrow B$

		A. 0 B. 1 C. 8 D. <span style='color: rgb(34, 34,</th></tr><tr><th>18</th><th>Question Image</th><th>34); font-family: "Times New Roman"; font-size: 24px; tex align: center; background-color: rgb(255, 255, 224);'><i></i>
19	Question Image	
20	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