Mathematics FA Part 1 Online Test

Sr	Questions	Answers Choice
1	If cosec Θ > 0 and cot Θ < 0, then terminal arm of the angle lies in:	A. I B. II C. III D. IV
2	Domain of finite sequence is:	A. set of natural numbers B. subset of N C. R D. none
3	For what value of k, the sum of the roots of the equation $x^2 + kx + 4 = 0$ is equal to the product of its roots:	A. ±1 B. 4 C. ±4 D. -4
4	Question Image	
5	A function f(x) is said to be the periodic function if, for all x in the domain of f, there exists a smallest positive number p such tat f (x + p) = _____:	A. f (p) B. x + p C. 0 D. f(x)
6	The range of principal cosine function is:	
7	Question Image	A. real numbers B. complexnumbers C. primenumbers D. oddnumbers
8	The roots of the equation $25x^2 - 30x + 9 = 0$ are;	A. rational B. irrational C. equal D. complex
9	A circle passing though the vertices of a triangle is known as:	
10	If f(x) = arccos x, then:	
11	No. of triangles can be formed by joining the vertices of the polygon having 5 sides ?	A. 10 B. 15 C. 20 D. none of these
12	A set containing finite number of elements is called:	A. nullset B. superset C. finiteset D. infiniteset
13	No. of signals made by 5 flags of different colors using 3 flags at a time is:	A. 60 B. 15 C. 10 D. None
14	Question Image	
15	Question Image	A. A B. B
16	$\tan^{-1}(-x)$ =	A. tan⁻¹x B. cot⁻¹x C. -tan⁻¹x D. -cot⁻¹x
17	Number of terms in the expansion of $(a+b)^n$ is:	A. n B. n+1 C. n-1 D. none of these
18	y = tan-1 x if and only if x = tan y, where:	A. -1 < x < 1 and - π < y < π
19	If set A = {1, 2, 3} and B = {1, 2, 3} then sets A and B are:	A. not equal B. equal C. disjoint D. overlapping

20	Question Image