

## Mathematics FA Part 1 Online Test

Sr	Questions	Answers Choice
1	n! stands for:	A. product of first natural numbers B. sum of n natural numbers C. product of n integers D. none of these
2	Question Image	A. irrational fraction B. polynomial C. rational fraction D. none of these
3	tan (α - ß ) =	
4	A sequence is denoted by:	B. {a <sub>n</sub> } C. a <sub>n</sub> D. a <sub>1</sub> + (n-1) d
5	If AB = BA = I, then A and B are:	A. equal to each other B. multiplicative inverse of each other C. additive inverse of each other D. both singular
6	Question Image	D. none of these
7	Domain of the function $y = tan^{-1} x is$ :	
8	If $\alpha$ , $\beta$ are complex cube roots of unity, then 1 + $\alpha^n$ + $\beta^n$ = where n is a positive integer divisible by 3:	A. 1 B. 3 C. 2 D. 4
9	Question Image	A. 2 B. 4 C. 6 D. 8
10	In $ax^2 + bx + c = 0$ , if $b^2 - 4ac > 0$ and perfect square the roots are:	A. rational B. irrational C. equal D. complex
11	$x^2 - 5x + 6 = 0$ is:	
12	Every real number is also a/an:	A. integer B. rational number C. irrationalnumber D. complexnumber
13	A.M between $1 + x - x^2$ and $1 + x + x^2$ is:	A. 1 + x <sup>2</sup> B. 1 + x C. 2 D. none
14	Question Image	A. tan x B. cot x
15	If n(S) = 3 then n {P(S)} =	A. 2 B. 8 C. 16 D. 4
16	Question Image	A. scalarmatrix B. diagonalmatrix C. lower triangularmatrix D. uppertriangularmatrix
17	Question Image	A. 4 B. 16 C. 8 D. 64
18	tan (-135°) =	A. 0 B. 1 D. √2
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20 Question Image