

Mathematics FA Part 1 Online Test

Sr	Questions	Answers Choice
1	Question Image	A. irrational fraction B. polynomial C. rational fraction D. none of these
2	Question Image	D. none of these
3	Question Image	A. 5 B. -5 C. -4 D. 4
4	$i^2 + 1 =$	A. -1 B. 0 C. i D. 1
5	Question Image	
6	In triangle ABC, if $\alpha = 90^\circ$ then:	D. none of these
7	The roots of the equation $25x^2 - 30x + 9 = 0$ are;	A. rational B. irrational C. equal D. complex
8	$x^2 - 5x + 6 = 0$ is:	
9	Modulus of $15i + 20$ is:	A. 20 B. 15 C. 25 D. none of the above
10	The domain of $y = \cos^{-1} x$ function is:	
11	Period of a trigonometric function is:	A. any real number B. any negative real number C. any integer D. a least positive number
12	Question Image	A. 0 B. i C. -i D. 1
13	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
14	The graph of $y = \cos^{-1} x$ is obtained by reflecting the graph of $y = \cos x$ about:	A. x-axis B. y-axis C. $y = x$ D. $y = -x$
15	The in-radius r of a triangle is given by:	
16	Question Image	
17	A sequence is denoted by:	B. $\{a_n\}$ C. a_n D. $a_1 + (n-1)d$
18	Question Image	A. 0 B. -1 C. ≥ 1 D. none
19	Question Image	A. 0
20	If $a_{n-1} = 2n - 3$ then $a_{n+1} =$	A. $2n - 1$ B. $2n + 1$ C. $2n + 3$

