

Mathematics FA Part 1 Online Test

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Sr	Questions	Answers Choice
1	Question Image	A. p is false and q is true B. both p and q are false C. p is true and q is false D. both p and q are true
2	cos(tan ⁻¹ ∞) =	A. 0 B. ∞ C. 1
3	Question Image	A. integer B. rationalnumber C. irrationalnumber D. naturalnumber
4	Zero cannot be a term of:	A. A.P and G.P B. G.P and H.P C. A.P and H.P D. only H.P
5	If $a_{n-1} = 2n - 3$ then $a_{n+1} =$	A. 2n - 1 B. 2n + 1 C. 2n + 3 D. none
6	Four fourth roots of 625 are:	A. ±5,±5i B. ±5,±25i C. ±25,±25i D. none of these
7	One of the roots of the equation $3x^2 + 2x + k = 0$ is the reciprocal of the other, then $k = \dots$	A. 3 B. 2 C. 1 D. 4
8	A reference angle ⊖ is always:	
9	A matrix in which each element is 0 is called:	
10	Question Image	A. c = 0 B. b = 0, c = 0
11	7th term of G.P 3, 6, 12 is:	A. 512 B. 192 C. 48 D. 96
		A. T ₆
12	Question Image	B. T ₇ C. T ₈ D. T ₅
13	If the sum of the roots of ax^2 - $(a + 1) x + (2a + 1) = 0$ is 2, then the product of the roots is:	A. 1 B. 2 C. 3 D. 4
14	If α , β are the roots of x^2 + kx + 12=0 such that α - β = 1 then K = :	A. 0 B. ±5 C. ±7 D. ±15
15	Tan (294°) =	A. tan24° Btan24° C. cot24° Dcot24°
16	In 2s = a + b + , then in any triangle ABC:	D. all of above
17	π is defined as:	A. ration of diameter of a circle to its circumference B. ration of the circumference of a circle to its diameter C. ration of area of a circle to its circumference

		D. ration of the circumference of a circle to its area
18	A set is defined as:	A. collection of some objects B. well defined collection of some objects C. well defined collection of distinct objects D. none of these
19	Inverse of an element in a group is:	A. infinite B. finite C. unique D. not possible
20	The period of 2 - sin 3x is:	