

Mathematics FA Part 1 Online Test

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	A. $r_{₁}$ B. $r_{₂}$ C. $r_{₃}$ D. r
3	Question Image	A. cos x B. sec x
4	To draw general conclusions from a limited number of observations is called:	A. logic B. proposition C. induction D. deduction
5	Question Image	
6	Sum of all four fourth roots of unity is:	A. 1 B. 0 C. -1 D. 3
7	$180^\circ =$ _____:	D. π radians
8	The middle term in the expansion of $(a+b)^{20}$ is;	A. 10^{th} term B. 11^{th} term C. 12^{th} term D. 13^{th} term
9	In a triangle ABC $b = \sqrt{3}$, $c = 1$, $\alpha = 30^\circ$ then $a =$:	A. 2 B. 1 C. 3 D. -1
10	Probability of an impossible event is:	A. 0 B. 1 C. -1 D. ∞
11	If $a_{n-1} = 2n - 3$ then $a_{n+1} =$	A. $2n - 1$ B. $2n + 1$ C. $2n + 3$ D. none
12	Period of a trigonometric function is:	A. any real number B. any negative real number C. any integer D. a least positive number
13	Question Image	A. 2 B. 4 C. 6 D. 8
14	$\tan (\alpha - \beta) =$	
15	Minors and co-factors of the elements in a determinant are equal in magnitude but they may differ in:	A. order B. position C. sign D. symmetry
16	The objects in a set are called:	A. elements B. sub-sets C. whole numbers D. overlapping sets
17	Question Image	A. {1, 2, 3} B. {5, 6, 7} C. {4}
18	If an angle α is allied to an angle β , then $\alpha \pm \beta =$ _____:	A. 90° B. multiple of 90° C. 180° D. multiple of 180°

19	If the Discriminant of a quadratic equation is a perfect square, then roots are:	A. real and equal B. complex C. rational D. irrational
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20	The range of $y = \cos^{-1} x$ function is:
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