

Mathematics FA Part 1 Online Test

Sr	Questions	Answers Choice
1	Question Image	A. integer B. rational number C. irrational number D. natural number
2	Amplitude of $\sin x$ is:	A. R B. $[-1,1]$ C. 0 D. 1
3	What is called the arrangement of numbers formed according to some definite rule ?	A. arithmetic sequence B. geometric sequence C. sequence D. none of these
4	A groupoid (S) is called _____ if it is associative in S:	A. group B. abelian-group C. semi-group D. associative-group
5	Question Image	A. 1 B. -1 C. -6 D. 6
6	$\cos (\alpha-\beta) =$	A. $\cos \alpha \cos \beta + \sin \alpha \sin \beta$ B. $\cos \alpha \cos \beta - \sin \alpha \sin \beta$ C. $\cos \alpha \cos \beta + \sin \alpha \cos \beta$ D. $\sin \alpha \cos \beta - \sin \alpha \sin \beta$
7	The area of a sector of a circular region of radius r with length of the arc of the sector equal to s is-----:	A. $r\theta$ B. rs
8	π , e are:	A. integers B. natural numbers C. rational numbers D. irrational numbers
9	Question Image	
10	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°
11	Every real number is also a/an:	A. integer B. rational number C. irrational number D. complex number
12	The period of $\sin 2x$ is:	A. π B. 2π C. 3π
13	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 that $f(x + p) =$ _____:	A. $f(p)$ B. $x + p$ C. 0 D. $f(x)$
14	Question Image	
15	A^{-1} exists if A is:	A. singular B. nonsingular C. symmetric D. none
16	Question Image	A. 4 B. 6 C. 8 D. 10
17	The number of ways in which five persons can sit at a round table is:	A. $4!$ B. $5!$ D. none of these

18	A reference angle Θ is always:	
19	Question Image	A. scalar matrix B. diagonalmatrix C. lower triangularmatrix D. upper triangularmatrix
20	One of the roots of the equation $3x^2 + 2x + k = 0$ is the reciprocal of the other, then $k =$:	A. 3 B. 2 C. 1 D. 4