

Mathematics FA Part 1 Online Test

Sr	Questions	Answers Choice
1	Question Image	B. archimedean property C. transitive property D. multiplicative property
2	Question Image	
3	The roots of the equation $25x^2 - 30x + 9 = 0$ are;	A. rational B. irrational C. equal D. complex
4	Four fourth roots of 625 are:	A. $\pm 5, \pm 5i$ B. $\pm 5, \pm 25i$ C. $\pm 25, \pm 25i$ D. none of these
5	Question Image	
6	Number of terms in the expansion of $(x+y)^6$ is:	A. 7 B. 6 C. 2 D. 8
7	Sum of roots of $ax^2 + bx + c = 0$ is equal to product of roots only if:	A. $a+c=0$ B. $b+c=0$ C. $a+b=0$ D. $a+b+c=0$
8	The factorial of positive integer is:	A. rational no. B. positive integer C. real no. D. none
9	If A is a square matrix, then $A - A^t$ is:	
10	Question Image	
11	If $\sin \Theta + \operatorname{cosec} \Theta = 2$, then $\sin^2 \Theta + \operatorname{cosec}^2 \Theta =$	A. 2 B. 4 C. 0 D. 8
12	The additive inverse of a matrix A is:	A. A B. A^{-1} C. $-A$ D. A^{-2}
13	The imaginary part of the complex number $a + bi$ is:	A. a B. b C. bi D. none of these
14	Question Image	D. None
15	Question Image	A. $\tan x$ B. $\cot x$
16	What is the next term in the sequence 10, 7, 4, 1.....?	A. 2 B. -2 C. -3 D. none of these
17	$(1 - \sin^2 \Theta) (1 + \tan^2 \Theta) =$	A. 0 B. 1 C. Θ D. -1
18	Question Image	A. 0
19	In binomial expansion of $(a+b)^n$, n is positive integer the sum of odd coefficients equals:	D. none of these
20		A. $(-1)^n$ B. $(1)^n$

