

Mathematics FA Part 1 Online Test

Sr	Questions	Answers Choice
1	Numbers are formed by using all the digits 1, 2, 3, 4, 5, 6 on digit being repeated, then the numbers which are divisible by 5 are:	A. 110 B. 120 C. 122 D. 124
2	If a polynomial $P(x) = x^2 + 4x^2 - 2x + 5$ is divided by $x - 1$, then the reminder is:	A. 8 B2 C. 4 D. 5
3	Question Image	D. none of these
4	Conjugate of complex number (-a, -b) is:	A. (-a, b) B. (-a, -b) C. (a, -b) D. none of these
5	In triangle ABC, if α = 90° then:	D. none of these
6	If n(S) = 3 then n {P(S)} =	A. 2 B. 8 C. 16 D. 4
7	The product of three G.Ms between 1 and 16 is:	A. 32 B. 64 C. 128 D. 16
8	The order of a matrix is shown by:	B. number of columns + number of rows C. number of rows × number of columns D. number of columns - number of rows
9	Sequences are also called:	A. Series B. Progressions C. Means D. Convergence
10	One card is drawn at random from a pack of 52 cards. The probability that the card drawn a king is:	D. none of these
11	Question Image	A. A.P B. G.P C. H.P D. none
12	A circle passing though the vertices of a triangle is known as:	
13	The period of 2 + cos 3x is:	
14	The roots of the equation:	A. complex B. irrational C. rational D. none of these
15	cos(tan ⁻¹ ∞) =	A. 0 B. ∞ C. 1
16	Question Image	
17	The period of sec 2x is:	
18	If, for all x in the domain of f, there exists a smallest positive number p such that $f(x+p) = f(x)$, then p is the:	A. period of f B. period of 2f C. period of 3 f D. period of 4 f
19	If ${}^{n}P_{2} = 30$ then $n = :$	A. 5 B. 6 C. 2

20 Question Image A. 3:5:2 C. 3:2:1 D. 1:2:3