

## Mathematics FA Part 1 Online Test

Sr	Questions	Answers Choice
1	In $ax^2 + bx + c = 0$ , if $b^2 - 4ac > 0$ and perfect square the roots are:	A. rational B. irrational C. equal D. complex
2	Question Image	A. cancellation property w.r.t multiplication B. cancellationproperty w.r.t addition C. multiplicativeproperty D. additiveproperty
3	Four fourth roots of 625 are:	A. ±5,±5i B. ±5,±25i C. ±25,±25i D. none of these
4	Question Image	
5	The amplitude and period of 3 sin x are:	A. 3, π B. 2, 2π C. 3, 3π D. 3, 2π
6	Which one is radical equation:	A. ax <sup>2</sup> + bx + c B. ax + b = 0 D. 2 <sup>x</sup> = 16
7	If A is a square matrix, then A + A <sup>t</sup> is:	
8	Question Image	B. archimedean property C. transitive property D. multiplicative property
9	A dice is thrown. The probability to get an even number is:	A. 1 D. none of these
10	A biconditional is written in symbols as:	
11	The lengths of the sides of a triangle are proportional to the sines of the opposite angles to the sides. This is known as:	A. The law of sines B. The law of cosines C. The law of tangents D. The fundamental law
12	If $a_{n-3} = 2n - 5$ then $a_n =$	A. 2n-1 B. 2n+1 C. 2n+3 D. none
13	No. of arrangements of the letters of the word plane taking all letters at a time:	A. 5
	No. of arrangements of the letters of the word plane taking all letters at a time.	B. 1 D. none
14	In a simultaneous throw of two dice, The probability of getting a total of 7 is:	B. 1
14		B. 1
	In a simultaneous throw of two dice, The probability of getting a total of 7 is:	B. 1 D. none A. 0 B. 1 C1
15	In a simultaneous throw of two dice, The probability of getting a total of 7 is:  The identity element with respect to addition is:	B. 1 D. none  A. 0 B. 1 C1 D. 0 and 1  A. 6 B6
15	In a simultaneous throw of two dice, The probability of getting a total of 7 is:  The identity element with respect to addition is:  What is the common difference of the sequence 11, 5, -1,?	B. 1 D. none  A. 0 B. 1 C1 D. 0 and 1  A. 6 B6 D. none of the foregoing numbers  A. 7:12 B. 2:3 C. 3:2

19	Question Image	A. A B. B	
20	Number of digits multiple of 5 made from the digits 2, 3, 5, 7, 9 is:	A. 5 B. 24 C. 20 D. none	