

## Mathematics FA Part 1 Online Test

Sr	Questions	Answers Choice
1	Solution set of the simultaneous equations : $x + y = 1$ , $x - y = 1$ is:	A. {(0,0)} B. {(1,0)} C. {(0,1)} D. {(1,1)}
2	Question Image	D. diagonal matrix
3	Question Image	A. 25 B. 20 C. 40 D. 2a + 2b + 2c
4	How many different number can be formed by taking 4 out of the six digits 1, 2, 3, 4, 5, 6:	A. 360 B. 120 C. 366 D. none of these
5	In any triangle ABC, law of cosines is:	
6	Question Image	A. A B. B
7	Question Image	A. 3×2 B. 2×3 C. 2×2 D. 3×3
8	Division of a natural number by another natural number gives:	A. always a natural number B. always an integer C. always a rationalnumber D. always an irrational number
9	With usual notations for triangle R equals:	
10	A matrix of order m×1 is called:	A. row matrix B. column matrix C. identity matrix D. scalar matrix
11	Question Image	
12	A <sup>-1</sup> exists if A is:	A. singular B. nonsingular C. symmetric D. none
13	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. rO B. rs
14	The distance between the points P(x1, y1) and Q(x2, y2) is:	
15	The set of negative integers is closed with respect to:	A. addition B. multiplication C. both (a) and (b) D. subtraction
16	Question Image	
17	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
18	Question Image	
19	If x is positive or zero, then the principal value of any inverse function of x, if it exists lies in the interval:	
20	If $\alpha$ , $\beta$ are complex cube roots of unity, then 1 + $\alpha^n$ + $\beta^n$ = where n is a positive integer divisible by 3:	A. 1 B. 3 C. 2 D. 4