

Mathematics FA Part 1 Online Test

Sr	Questions	Answers Choice
1	If set $A = \{1, 2, 3\}$ and $B = \{1, 2, 3\}$ then sets A and B are:	A. not equal B. equal C. disjoint D. overlapping
2	If the Discriminant of a quadratic equation is a perfect square, then roots are:	A. real and equal B. complex C. rational D. irrational
3	To draw general conclusions from well-known facts is called:	A. logic B. proposition C. induction D. deduction
4	If A is a matrix of order $m \times n$ and B is a matrix of order $n \times p$ then the order of AB is:	A. $p \times m$ B. $p \times n$ C. $n \times p$ D. $m \times p$
5	Question Image	A. $x = 0$ B. $y = 0$ C. $x = 0$ and $y = 0$ D. $x = 0$ or $y = 0$
6	A declarative statement which is either true or false but not both is called:	A. logic B. proposition C. induction D. deduction
7	Question Image	A. integer B. rationalnumber C. irrationalnumber D. naturalnumber
8	The roots of the equation $25x^2 - 30x + 9 = 0$ are;	A. rational B. irrational C. equal D. complex
9	If the roots of $x^2 - bx + c = 0$ are two consecutive integers, then: $b^2 - 4ac =$	A. 0 B. 1 C. -1 D. 2
10	If A and B are two matrices, then:	A. $AB = O$ B. $AB = BA$ C. $AB = I$ D. AB may not be defined
11	A clock strikes once when its hour hand is at one, twice when it is at two, and so on. How many times does the clock strike in ten hours ?	A. 55 B. 78 C. 66 D. 46
12	The number of ways in which five persons can sit at a round table is:	A. 4! B. 5! D. none of these
13	In a triangle if $\alpha > 45^\circ$, $\beta > 30^\circ$ then Γ cannot be:	A. 90° B. 100° C. 120° D. 10°
14	${}^nC_4 = {}^nC_8$ then $n =$:	A. 4 B. 12 C. 8 D. 6
15	If $a_{n-1} = 2n - 3$ then $a_{n+1} =$	A. $2n - 1$ B. $2n + 1$ C. $2n + 3$ D. none

16	A matrix of order $m \times 1$ is called:	A. row matrix B. column matrix C. identity matrix D. scalar matrix
17	$[0]$ is a:	
18	In any triangle ABC, law of tangents is:	D. all of these
19	Sequences are also called:	A. Series B. Progressions C. Means D. Convergence
20	If sets A and B are equal then:	