

Mathematics FA Part 1 Online Test

Sr	Questions	Answers Choice
1	Question Image	A. degree of $P(x)$ = degree of $Q(x)$ B. degree of $P(x)$ < degree of $Q(x)$ C. degree of $P(x)$ > degree of $Q(x)$ D. none of these
2	If $\operatorname{cosec} \theta > 0$ and $\cot \theta < 0$, then terminal arm of the angle lies in:	A. I B. II C. III D. IV
3	Question Image	D. 20
4	Question Image	
5	Question Image	
6	$n!$ stands for:	A. product of first natural numbers B. sum of n natural numbers C. product of n integers D. none of these
7	$r_1 =$	
8	Question Image	A. 0
9	No. of signals made by 5 flags of different colors using 3 flags at a time is:	A. 60 B. 15 C. 10 D. None
10	Graphs of trigonometric function within their domains are:	A. line segments B. sharp corners C. broken lines D. smooth curves
11	Question Image	A. 0 B. i C. $-i$ D. 1
12	The period of $\tan 3x$ is:	
13	If a statement $P(n)$ is true for $n = 1$ and truth of $P(n)$ for $n = k$ implies the truth of $P(n)$ for $n = k + 1$, then $P(n)$ is true for all:	A. integers n B. real numbers n C. positive real numbers n D. positive integers n
14	Question Image	
15	If S is the H.M between 2 and b then $b =$:	A. -10 B. 10 C. 7 D. 5
16	The disjunction of two statements p and q is denoted by:	
17	If ${}^nP_2 = 30$ then $n =$:	A. 5 B. 6 C. 2 D. 3
18	Equations having a common solution are called:	A. linear B. quadratic C. homogeneous D. simultaneous
19	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
20	Complex roots of real quadratic equation always occur in:	A. conjugate pair B. ordered pair C. reciprocal pair

C. reciprocal pair
D. none of these