Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	The ellipse and hyperbola are called	A. Concentric conics B. Central conics C. Both a b D. None
3	Question Image	
4	Period of sec x is _____	
5	If we have a statement "if p then q" then q is called	A. Conclusion B. Implication C. Unknown D. Hypothesis
6	$i^9 =$	A. i² B. -1 C. 1 D. i
7	An improper rational fraction can be reduced by division to a	A. Proper fraction B. Polynomial C. mixed form
8	If the roots of $ax^2 + bx + c = 0$ (a > 0) be greater than unity, then	A. a + b + c = 0 B. a + b + c > 0 C. a + b + c < 0 D. None of these
9	If in a set of real no a is multiplicative identity then	A. a,a = a² B. a,a = 1 C. a,a = 0 D. None of these
10	Question Image	
11	Through how many radians does the minute hand of a clock turn in one hour	
12	Question Image	D. none of these
13	(1,0) is in the solution of the inequality	A. 3x + 2y > 8 B. 2x - 3y < 4 C. 2x + 3y > 3 D. x - 2y < -5
14	A person standing on the bank of a river observes that the angle of elevation of the top of a tree on the opposite bank of the river is 60° and when he retires 40 meters away from the tree the angle of elevation becomes 30°. The breadth of the river is	A. 40 m B. 30 m C. 20 m D. 60 m
15	For any two sets A and, A ⊆ B if	A. x ∈ A ⇒ x ∈ B B. x ∉ A ⇒ x ∉ B C. x ∈ A ⇒ x ∉ B D. None of these
16	In the expansion of $(a + x)^n$ the sum of exponents of a and x in each term of the expansion is	A. n + 1 B. n - 1 C. n D. 2n
17	Question Image	A. A positive integer B. A negative integer C. A natural number D. An irrational number
18	Question Image	C. ln f(x) + c D. f(x) - c
19	Question Image	A. 3/4 B. -3/4 C. 4/3 D. -4/3

| 20 | Multiplicative inverse of "1" is | A. 0
B. ±1
C. 1
D. {0,1} |