Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Latus rectum = 4 x _____	A. focal distance of the vertex B. Chord C. Focus D. 1/2
2	Two sets A and B are said to be disjoint if	
3	Question Image	
4	Question Image	A. No solution B. One real solution C. More than one real solution D. None of these
5	If the cutting plane is parallel to the axis of the cone and intersects both of its nappes, then the curve of intersection is:	A. an ellipse B. a circle C. a parabols D. a hyperbola
6	$x^2+ x - 5 = 0$ is	A. A polynomial B. An inequality C. An identity D. None
7	The synthetic division method is only used to divide a polynomial by	A. quadratic equation B. binomial C. linear equation D. monomial
8	Question Image	
9	The period of tan [x/3] is _____	A. 2π B. 4π C. 3π D. 5π
10	$f(x) = 3x^4 -2x^2 + 7$ is:	A. an even function B. an odd function C. an even and implicit function D. neither even nor a odd
11	Question Image	A. 2 B. -3/2 C. 1 D. 0
12	Question Image	
13	The length of the tangent from (2, 1) to the circle $x^2+ y^2+ 4y + 3 = 0$ is	
14	For any two sets A and, $A \subseteq B$ if	A. $x \in A \Rightarrow x \in B$ B. $x \notin A \Rightarrow x \notin B$ C. $x \in A \Rightarrow x \notin B$ D. None of these
		A. 16

15	(2.02)4 s equal to	B. 16.6496 C. 17 D. 18
16	If $ax^2 + bx + x = 0$ is satisfied by every value of x, then	A. b = 0, c = 0 B. c = 0 C. b = 0 D. a = b = c = 0
17	Question Image	A. A B. B C. U D. None of these
18	The number of values of x in the interval $[0, 5\pi]$ satisfying the equation $3\sin^2 x - 7\sin x + 2 = 0$ is	A. 0 B. 5 C. 6 D. 10
19	graph of trigonometric function y = sec x does not meet	A. x - axis B. y -axis C. both axis D. None of these
20	The fixed point from which all the points of a circle are equidistant is called the	A. chord of the circle B. centre of the circle C. diameter of the circle D. radius of the circle