Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	y=0 of the parabola $y^2 = 4ax$ is the	A. equation of directirx B. Equatio of the tangent C. Equation of axis D. equation of latus rectum
2	Question Image	
3	The differential equations of all conis whose axes coincide with the co-ordinate axis is	
4	The range of function f(x)=-x2+2x-1 is	A. R B. (-∞,0] C. (-∞,1] D. [0,∞)
5	A quadrilateral whose diagonals are perpendicular bisector of each other is	A. Square B. Rectangle C. Rhombus D. Parallelogram E. Trapezium
6	If y=f(x) is a function then x is called	A. dependent variable B. independent variable C. constant D. none of these
7	A cone is generated by all lines through a fixed point and the circumference of	A. a Circle B. an ellipse C. a Hyperbola D. None of these
8	Question Image	
9	If $x^2 + px + 1$ is a factor of $ax^3 + bx + c$, then	A. a²+ c²= -ab B. a²- c²= -ab C. a²- c²= ab D. None of these
10	Question Image	
11	If eccentricity of ellipse becomes zero then it takes the form of	A. A parabola B. A circle C. A straight line D. None of these
12	The sum of an indicated number of terms in a sequence is called	A. sequence B. progression C. Series D. Mean
13	Which of the following is a quadrantal angle	A. 30° B. 45° C. 60° D. 90°
14	Question Image	
15	Question Image	A. Principle of equality of fractions B. Rule for product of fractions C. Golden rule of fractions D. Rule for quotient of fractions
		A. 2 sin<span style="font-family: "Times New Roman"; font-size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 224);">α cosβ B. sin (2<span style="font-family: "Times New Roman"; font-

16	sin (α+β) + sin (α-β)	size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 224);">α β) C. sinαcosα D. None of these
17	s > t then	A. (s - t)²> (t - s)² B. (s - t)²< (t - s)² C. (s - t)²= (t - s)² D. None
18	The equation of the circle with centre (h, k) and radius r is	A. (x+ h)²+ (y+ k)²= r² B. (x+ h)²+ (y - k)²= r² C. (x - h)²+ (y+ k)²= r² D. (x - h)²+ (y - k)²= r²
19	The positive integer just greater than $(1+0.0001)^{10000}$is	A. 4 B. 5 C. 2 D. 3
20	Question Image	A. Associative law of multiplication B. Commutative law of addition C. Commutative law of multiplication D. Associative law of addition