Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	f(x) = x is	A. trigonometric function B. exponential function C. quadratic function D. identify function
2	Question Image	A. Y = -x log x -x + c B. Y = x log x + x C. Y = x log x - x + c D. None of these
3	If S and P are the sum and the product of roots of a quadratic equation, then the quadratic equation is	A. x²+ Sx - P = 0 B. x²- Sx + P = 0 C. x²- Sx - P = 0 D. X²+ Sx + P = 0
4	Question Image	
5	The degree of differential equation is the power of the	A. Lowest order derivative B. Highest order derivative C. Integral D. All are correct
6	Question Image	
7	In the function f: A□B, the elements of a are called	A. Images B. Pre-images C. ranges D. Parameters
8	Question Image	A. R B. 2R C. r D. 2r
9	Question Image	
10	Consider the equation px2 + qx + r = 0 where p,q,r are real The roots are equal in magnitude but opposite in sign when	A. q = 0, r = 0,p ≠ 0 B. p = 0,qr≠ 0 C. r = 0,pq≠ 0 D. q = 0, pq≠ 0
11	The coefficient of x^{18} in $(ax^4-bx)^9$ after expansion is	A. 84a³ b⁶ B. 22a³b⁶ C. 27a⁴b⁵ D. 28a³b⁶
12	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
13	The contra positive of p → q is	A. q → p B. ~q→~q C. ~p→~q D. None of these
14	A line joining two distinct points on a parabola is called a _____ of the parabola.	A. Chord B. Tangent C. Lust rectum D. directrix
15	The process of finding a function whose derivative is given is called a	A. Differentiation B. Integration C. Differential D. None
16	The angle of depression of the point at a distance 70 meters from the foot of the tower from the top of the tower is 45□.The height of the tower is	A. 37m B. 97m C. 101m D. 70m
17	Let A,B and C be any sets such that A∪B = A∪C and A∩ B = A∩ C then	A. A = B B. B = C C. A≠ C

		D. A ≠ B
18	Question Image	
19	Question Image	A. 3 x 1 B. 1 x 3 C. 3 x 3 D. 1 x 1
20	(7,9) +(3,-5) =	A. (4,4) B. (10,4) C. (9,-5) D. (7,3)