Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	A function f is said to be an even if f(-x) =	A. 0 B. 1 C. f(x) D. -f(x)
2	Question Image	A. 1 B. 5 C. 7 D. 9
3	sin 3a = _____;	A. 3sin a - 4sin3a B. 4sin a -3 sin3 a C. 3 cos3 a -cosa D. 4cos3 a - 3cos a
4	The distance of a moving particle at any instant t is x = 3t2 +1 then velocity of particle at t = 10 is	A. 50 cm/sec B. 60 cm/sec C. 61 cm/sec D. None of these
5	Question Image	A. 1/x B. -x C. 2x D. 0.5 x
6	The number of subsets of B = {1,2,3,4,5}	A. 10 B. 32 C. 16 D. 5
7	Question Image	A. Associative property of addition B. Commutative property of addition C. Distributive property D. Additive identity
8	If the domain of the function f: x□ $2x^3$+ 1 is {-1,2,3}, the range of the function is	A. {3,2,5} B. {1,3,9} C. {-1,-2,-3} D. {3,9,19}
9	The series obtained by adding the terms of a geometric sequence is called	A. Infinite series B. Arithmetic series C. Geometric series D. Harmonic series
10	Every prime number is also	A. Rational number B. Even number C. Irrational number D. Multiple of two numbers
11	Out of 10, 000 families with 4 children each, the number of families all of whose children are daughters is	A. 375 B. 500 C. 625 D. 150
12	When we expand $(a + 2b)^5$then	A. a⁵+ 10a⁴b + 40a³b²+ 80a²b³+ 80ab⁴+ 32b⁵ B. a⁵+ a⁴b + a³b²+ a²b³+ ab⁴+ b⁵ C. 5a⁵+ 4a⁴b + 3a³b²+ 2a²b³+ 1 ab⁴+ b⁵ D. None
13	Question Image	A. direction ratios B. direction cosines C. direction angles

		D. none of these
14	The corner point of the boundary lines, x-2y 2x + y = 2 is:	A. (2,6) B. (6,2) C. (-2,2) D. (2,-2)
15	Question Image	B. a^xln a + c C. a^x+ c D. x a^x+ c
16	If A ⊆ B then A ∪ B is	A. A B. B C. A' D. A ∩B
17	the curve of the parabola $y^2 = -4ax$ is symmetric with respect to	A. x -axis B. y - axis C. Botha x and y- axis D. None of thes
18	Question Image	A. An ellipse B. A parabola C. A circle D. A hyperbola
19	Roots of the equation $9x^2 - 12x + 4 = 0$ are	A. Real and equal B. Real and distinct C. Complex D. None of these
20	Question Image	A. 0 B. -4 D. none of these