Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	F(x) = x^xdecreases in the interval	A. (0, e) B. (0, 1) C. (-∞,0) D. None
2	The two different parts of the hyperbola are called its	A. Vertices B. Directrices C. Nappes D. Branches
3	4/√49 is a	A. Irrational Number B. Prime Number C. Rational number D. Whole number
4	Empty set is	A. Not subset of every set B. Finite set C. Infinite set D. Not the member of real numbers
5	The distance of the point (-2, -3) from the origin is	A. 2 B. -5 C. -3
6	The coefficient of x^{10}in the expansion $(x^3+3/x^2)^{10}$is	A. 1700 B. 17023 C. 17027 D. 17010
7	the largest degree of the terms in the polynomials is called	A. terms of the polynomial B. degree of a polynomial C. co-efficient D. monomial
8	Question Image	A. R/[0,4] B. R/(0,4) C. (0,4) D. [0,4]
9	∫ x cos dx is equal to :	A. x cos x + sin x B. cos x + x sin x C. x cos x + x sin x D. x sin x + cos x
10	A function which is to be maximized or minimized is called an	A. Explicit function B. Implicit function C. Objective function D. None
11	The point _____ is in the solution of the inequality 2x - 3y < 4	A. (0, -2) B. (1, -3) C. (2, 2) D. (3, 0)
12	Question Image	A. 3 x 2 B. 2 x 3 C. 3 x 3 D. 2 x 2
13	The probability of getting a number between 1 and 100 which is divisible by 1 and itself if only is	A. 1 / 4 B. 1 / 2 C. 3 / 4 D. 25 / 98
14	How many types of an equation	A. 1 B. 3 C. 2 D. None

15	Ifα,β are non-real roots of ax2 + bx +c =0 (a,b,c∈ Q),then	A. α = β B. αβ = 1 C. α = β D. α = 1
16	The locus of the centre of a circle which touches two given circles externally is:	A. a hyperbola B. an ellipse C. a circle D. a parabola
17	If order of A is m x n, then order of $A^t$is	A. m x m B. n x n C. m x n D. n x m
18	If a statement S(n) is true for n = 1 and the truth of S(n) for n = k implies the truth of S(n) for = k + 1, then S(n) is true for all	A. Real numbers n B. Integers n C. Positive integers n D. None of these
19	The vertex of the equation $y^2 = 4ax$ is:	A. (2, -2) B. (1,1) C. (0 , 0) D. (2 , 2)
20	What is the period of sin 2x/3 cos 4x=?	A. π B. 2π C. π/2 D. π/3