Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	The equation x2+ y2- 8x+ 6y+ 25= 0 represents	A. A circle B. A pair of straight lines C. A point D. None of these
3	A _____ divides the plane into left and right half planes.	A. Vertical line B. Horizontal line C. Non vertical line D. Inequality
4	If z_1= 2 + 6i and z_2= 3 + 7i, then which expression defines the product of $z_1$and z_2?	A. 36 + (-32)i B. -36 + 32i C. 6 + (-11)1 D. 0, +(-12)i
5	If the graph of f is entirely below the x-axis, then the value of definite integral is	A. = 0 B. < 0 C. > 0 D. None
6	The period of cosec 10x is _____	
7	Zero is	A. An irrational number B. A rational number C. A negative integer D. A positive number
8	The set of real roots of the equation $\log_{(5x+4)}(2x+3)^3 - \log_{(2x+3)}(10x^2+ 23x + 12) = 1$ is	A. {-1} B. {-3/5} C. Empty set D. {-1/3}
9	Question Image	D. none of these
10	If $f(x) = (-x)^2$then f(-2) is	A. 0 B. 2 C. -4 D. 4
11	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
12	Question Image	A. 1 D. -1
13	The polar form of complex number x ≠ I y =	A. r cos θ+ r sin θ B. r cos θ+ is sin θ C. cos θ+ r sin θ D. i cos θ+ i sin θ
14	If a > 0,b > 0, c > 0 then the roots of the equation ax2+ bx + c =0 are	A. Real and negative B. Non-real with negative real parts C. Real and positive D. Nothing can be said
15	The nth term of a G.P. is	A. a₁rⁿ B. a₁rⁿ⁺¹ C. a₁rⁿ⁻¹ D. a₁r⁻ⁿ
16	Question Image	A. a tan(ax + b) + c B. - a tan(ax + b) + c
17	Question Image	A. p < r B. p > rr C. p + r < 0 D. p - r < 0
18	The roots of (x - a)(x - b) = ab x2 are always	A. Real B. Depends upon a C. Depends upon b

		C. Depends upon b D. Depends upon a and b
19	If A is a non singular matrix then A^{-1}= _____	
20	Question Image	C. 2x D. 2