Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	In one hour, the hour hand of a clock turns through	
3	If $x^3 + 4x^3 - 2x + 5$ is divided by $x - 1$, then the reminder is	A. 8 B. 6 C. 4 D. None of these
4	The function $f\{(x, y) \mid y = ax^2 + bx + c\}$ is	A. One-one function B. Constant function C. Onto function D. Quadratic function
5	What is the circular measure of the angles between the hands of which at 4 o clock	A. $\pi/6$ B. $3\pi/2$ C. $\pi/4$ D. $2\pi/3$
6	The set of the first elements of the ordered pairs forming a relation is called its	A. Function on B B. Range C. Domain D. A into B
7	Question Image	A. Identity matrix B. Diagonal matrix C. Null matrix D. Hermitian matrix
8	Question Image	
9	Question Image	A. -1 B. 0 C. 1 D. None of these
10	A set having only one element is called	A. An empty set B. Universal set C. A singleton set D. A power set
11	If the focus lies on the y-axis with coordinates f(0,a) and directrix of the parabola is y = -a, the equation of parabola is:	A. $y^2 = -4\ ax$ B. $x^2 = 4ay$ C. $x^2 = -4ay$ D. $y^2 = 4ax$
12	Question Image	A. 2 B. -1 C. 8 D. not defined
13	$w^{28} + w^{38} = \underline{\qquad}$	A. 0 B. 1 C. w D. -1
14	The vector i = [1,0] is called unit vector along:	A. x-axis B. y - axis C. z- axis D. Botha a and y-axis
15	If $a_n = 2n - 3$, write the first four terms	A. -3, -1, 1, 3 B. 1, 3, 5, 7 C. -1, 1, 3, 5 D. None of these
16	Two tangents drawn from (2,3) to the circle $x^2 + y^2 = 9$ are	A. Real and distinct B. Imaginary C. Real and coincident D. None of these
17	Question Image	
18	Question Image	

19	If A and B are two matrices such that AB = B and BA = A, then $A^2 + B^2 =$	A. 2 AB B. 2 BA C. A + B D. AB
20	The latus rectum of the ellipse $5x^2 + 9y^2 = 45$ is	A. 10 / 3 B. 5 / 3 C. 3 / 5 D. 3 / 10