

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Derivative of strictly increasing function is always	A. Zero B. Positive C. Negative D. Both (A) and (B)
2	The set {Z\{0}} is group w.r.t	A. Addition B. Multiplication C. Division D. Subtraction
3	A series consisting of an unlimited number of terms is termed as an	A. Finite sequence B. Infinite sequence C. <sup>Infinite series</sup> D. geometric sequence
4	Question Image	A. 2x B. 3x <sup>2</sup> C. 1 D. 0
5	Question Image	A. 1 B. 2 C. 0 D. 4
6	Question Image	
7	Question Image	A. parallel vectors B. perpendicular vectors C. concurrent vectors D. collinear vectors
8	Question Image	A. Diagonal matrix B. Scalar matrix C. Triangular matrix D. Identity matrix
9	Question Image	A. 3 x 1 B. 1 x 3 C. 3 x 3 D. 1 x 1
10	Name the property used in 100 + 0 = 100	A. Additive inverse     B. Multiplicative inverse     C. Additive identity     D. Multiplicative identity
11	Which is an explicit function	A. y = x <sup>2</sup> + 2x - 1 B. x <sup>2</sup> + xy + y <sup>2</sup> = 2 C. x <sup>2</sup> + y <sup>2</sup> = xy + 2 D. All are
12	The equation of the plane which bisects the line joining $(2, 3, 4)$ and $(6, 7, 8)$ is	A. x + y + z - 15 = 0 B. x - y + z - 15 = 0 C. x - y - z - 15 = 0 D. x + y + z + 15 = 0
13	A point where two of its boundary lines intersect is called	A. Corner point B. Feasible point C. Vertex D. Feasible solution
		A. m=1 B. m=2
14	The line y =mx +1 is tangent to the parabola y2 =4x if	C. m=3 D. m=4
15	A conditional "if p then q" is denoted by	
16	Question Image	A. 0 B. 1 C2

		D. 10
7	Question Image	A. One-one but not onto B. One-one and onto C. Onto but not one-one D. Neither one-one nor onto
3	If the angle between two vectors with magnitude 2 and 15 is 30°then their scalar product is	B. 15 C. 30
9	What is the conjugate of -6 -i	A6 +i B. 6 + i C6 -i D. 6 -i
0	Question Image	A. 2s <sup>2</sup> B. 2s <sup>3</sup> C. s <sup>3</sup> D. 3s <sup>3</sup>