Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The transpose of a zero matrix is a _____	A. Column matrix B. Zero matrix C. Row matrix D. Scalar matrix
2	Which of the following is a scalar	A. weight B. force C. speed D. momentum
3	The greatest term in the expansion of $(3+2x)^9$, when x=1 is	A. 4th B. 4th and 5th C. 5th D. 6th
4	If w is a cube root of unity then $1 + w + w^2 =$ _____	A. 1 B. 2 C. 0 D. -1
5	$f(x) = x^3$ is:	A. an odd function B. an even function C. an implicit function D. a quadratic funtion
6	If the cutting plane is slightly tilted and cuts only one nappe of the cone, the resulting section is:	A. an ellipse B. Circle C. a hyperbola D. a parabola
7	A Series which does not coverage to a Unique sum is called	A. Harmonic Series B. Oscillatroy Series C. Arithmetic Series D. None of these
8	Question Image	
9	The real numbers which satisfy an inequality form its	A. solution B. coefficient C. domain D. range
10	For what value of k, 3x -2y+ k= 0 is tangent to the circle x2 +y2 +6x -4y =0	A. k=0 B. k=0 or 26 C. k = 26 D. k=-13
11	The middle term of the expansion $(1 + 2x)^6$ is _____	A. 1st term B. 4th term C. 2nd term D. 5th term
12	$3x + 4 \geq 0$ is	A. equation B. inequality C. identity D. none of these
13	Question Image	A. $1 + \tan^2 x + c$ B. tan x + c C. -tan x + c D. cot x + c
14	Which of the following has the same value as i113	A. i B. -1 C. -i D. 1
15	Question Image	
16	The set {Z\ {0} } is group w.r.t	A. Addition B. Multiplication C. Division D. Subtraction
17	Question Image	

17	Question Image	
18	Question Image	A. 0 B. 1 D. -1
19	The multiplicative inverse ofx^(-1) is	A. x B. a-2 C. 0 D. 1
20	The square matrix A is skew-symmetric when At =	A. -B B. -C C. -A D. -D