Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The general equation of circle $x^3 + y^3 + 2gx + 2fy + c = 0$, contains:	A. Three independent variables B. Two independent conntants C. Three indepentent parameters D. Three independent constants
2	Which of the following is a scalar.	A. force B. frequency C. weight D. acceleration
3	Question Image	
4	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
5	Question Image	A. 2 B. 4 C. 6 D. 8
6	The total cost of 2 apples and 3 oranges is $1.70, which of the following is true	A. The cost of one apple B. The cost of one orange C. Both have equal cost per item D. Cost of each single item can not be determined
7	Number of lines passing through three non-collinear points is	A. 2 B. 3 C. 1 D. 0 E. ∞
8	The number of different ways of describing a set is	A. One B. Two C. Three D. Four
9	The direction cosines of any normal to the xy-plane are	A. <1, 0, 0> B. <0, 1, 0> C. <1, 1, 0> D. <0, 0, 1>
10	Question Image	A. 1 B. 12 C. 5 D. 29
11	The set of natural is a semi group w.r.t	A. Addition B. Division C. Subtraction D. None of these
12	Question Image	
13	If a > b or a < b than a = b is a	A. Additive property B. Transitive property C. Trichotomy property of inequality
14	Question Image	
15	If the domain of sequence is finite set then the sequence is called	A. geometric sequence B. infinite sequence C. finite sequence D. arithmetic sequence
16	Question Image	A. 3K B. K2 C. K3 D. K
17	The conic ax2+2hxy+by2+2gx+2fy+c= 0 never represent a circle if	A. a≠ b,h≠0 B. a=b C. h≠0

		C. h≠0 D. h=0
18	The matrix A = [aij]mxn with m≠n is	A. Rectangular B. Symmetric C. Square D. None
19	A point where two of its boundary lines intersect is called	A. Corner point B. Feasible point C. Vertex D. Feasible solution
20	There are two middle terms in the expansion of (a+x)n if n is	A. Even +ve integer B. +ve integer C. Odd +ve integer D. All