Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. A complex number B. A rational number C. A natural number D. An irrational number
2	Question Image	A. Orthogonal B. Involutary C. Idempotent D. Nilpotent
3	Question Image	
4	If n is a positive integer then n! is	A. (n - 1) (n - 2) .....3,.2.1 B. n(n - 1) (n - 2) ...3.2.1 C. n(n - 1) (n -2) ... 3 D. None of these
5	If f(x) = tan x then f(0) is	A. 0 B. 1 C. 1/2
6	sin(a-90°)=_____;	A. sina B. cosa C. -sinθ D. -cosa
7	If c = 2i+j+k and d= -1 + 4j +2k, then [c-d]=	A. √7 B. √41 C. √19 D. √(2&7)
8	Tan 180° = _____	A. -1 B. 0 C. 1 D. Undefined
9	Archimedes approximate the function by horizontal function and the area under f by the sum of small	A. Parallelograms B. Squares C. Retangles D. Polygons
10	What is the probability of being born on Wednesday?	A. 1/7 B. 1/2 C. 1/3 D. 1/8
11	The parabola y2 + 2y + x = 0 lie in _____ quadrant.	A. First B. Second C. Third D. Fourth
12	Question Image	
13	Z is the set of integers (Z.*) is a group with a * b = a +b +1, a,b ∈ G.then inverse of a is	A. -a B. a +1 C. -1-a D. None of these
14	Let the sequence 1, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8, 8, 8, 8, ... where n consecutive terms have the value n, then 1025th term is	A. 2^9 B. 2^{10} C. 2^{11} D. 2^8
15	The sum of the odd coefficients in the expansion of $(a + x)^4$ is	A. 14 B. 12 C. 8 D. 4
16	If u =[3,-4],then modulus of u is:	A. 5 B. 5i C. -5 D. √5
		A. (0, -2)

17	The point _____ is in the solution of the inequality 2x - 3y < 4	B. (1, -3) C. (2, 2) D. (3, 0)
18	I f the focus is F (0,-a) and directrix is the line v=a, then equation of the parabola is:	A. $x^2 = 4ay$ B. $y^2 = 4ax$ C. $y^2 = -4ax$ D. $x^2 = 4ax$
19	Question Image	A. K/6 B. 2K C. 3K D. 6K
20	The statement that a group can have more than one identity elements is	A. True B. False C. Fallacious D. Some times true