Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Roots of the equation $x^2 - 7x + 10 = 0$ are	A. {2, 5} B. {-2, 5} C. {2,5} D. {-2,-5}
2	Every whole number is	A. A real number B. An irrational number C. A prime number D. A negative integer
3	Question Image	
4	A joint equation of the lines through the origin and perpendicular to the lines ax2 +2hxy +by2 =0 is indentical is ax2 +2hxy +by2 =0 if	A. h2 = ab B. a + b =0 C. a = b D. a≠ b E. a = b = 0
5	Q ∪ Q' =	A. Q B. Q' C. N D. R
6	Question Image	A. -3 -2i B. 3 +2i C. 1 + 2i D. 1 - 2i
7	In (x + iy), y is called as	A. Imaginary part B. Complex number C. Real part D. None of above
8	Question Image	
9	In-radius is denoted by	A. r B. η C. r2 D. R
10	The point P (5,8) and the origin lie on the side of the line 3x+ 7y+ 15 =0	A. Same side B. P above and origin below C. Opposite side D. P below and origin above
11	Question Image	A. quadratic function B. constant function C. trigonometric function D. linear function
12	The factorial of a positive integers is a (an)	A. Rational number B. Positive integer C. Real number D. None
13	Maximum value of z =15x +20y subject to 3x+ 4y≤ 12,x,y≥ 0 is given by	A. 46 B. 60 C. 50 D. 70
14	Question Image	A. 2s² B. 2s³ C. s³ D. 3s³
15	Question Image	A. 1 B. 2 C. -1 D. 0
16	Question Image	
17	The corner point of the boundary lines, x-2y 2x + y = 2 is:	A. (2,6) B. (6,2)

17	2x + y = 2 is:	C. (-2,2) D. (2,-2)
18	Question Image	A. Reflexive property B. Symmetric property C. Transitive property D. Additive property
19	The angle of elevation of a tower from a point A due south of it is x and from a point B due east of A is y. If AB = 1, then the height h of the tower is given by	
20	Question Image	