Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The sum of the coefficient in the expansion of $(a + x)^5$is	A. 32 B. 16 C. 8 D. 5
2	$f(x) = x^3$is:	A. an odd function B. an even function C. an implicit function D. a quadratic funtion
3	Question Image	A. 2 B. -1 C. 8 D. not defined
4	Cos^{-1} 12/13 =	A. tan⁻¹ 3/5 B. cot⁻¹ 13/12 C. Sec⁻¹ 13/12 D. sin⁻¹ 5/13
5	Question Image	A. - cos x B. sin x C. - sin x D. sec x
6	If you are looking a bird in the tree from the ground then the angle formed is called angle of_____;	A. Elevation B. Depression C. Right angle D. None of these
7	Question Image	
8	$\sin^2\alpha\cos^2\alpha$=	A. -1 B. 0 C. 1 D. None of these
9	A matrix with a single column is called	A. Column matrix B. Row matrix C. Identity matrix D. Null matrix
10	The number of significant numbers which can be formed by using any number of the digits 0, 1, 2, 3, 4 but using each not more than once in each number is	A. 260 B. 356 C. 410 D. 96
11	The solution set of x^2- 5x + 6 = 0 is	A. {1, 3} B. {2, 3} C. {1, 2} D. None of these
12	Two sets A and B are said to be disjoint if	
13	The third term of a G.P. is the square of first term. If the second term is 8, then the 6th term is	A. 120 B. 124 C. 128 D. 132
14	The line through the focus and perpendicular to the directrix is called _____ of the parabola	A. axis B. focal chord C. tangent D. latus rectum
15	There are 25 tickets bearing number from 1 to 25. One ticket is drawn at random. The probability that the number on it is a multiple of 5 or 6 is	A. 7 / 25 B. 9 / 25 C. 11 / 25 D. None of these
16	The intercepts of the plane 2x - 3y + 4z = 12 on the co-ordinate axes are given by	A. 2, -3, 4 B. 6, -4, -3 C. 6, -4, 3 D. 3, -2, 1.5

17	Question Image	
18	If w+w2 is a root of (x+1)(x+2)(x+3)(x+4) = k, then	A. k=0 B. k=1 C. k=w D. k=w2
19	The point _____ is in the solution of the inequality 2x - 3y < 4	A. (0, -2) B. (1, -3) C. (2, 2) D. (3, 0)
20	In R the number of identity elements w.r.t.'.' is	A. One B. Two C. Three D. Four