Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If 6th term of a series in A.P, is -2 and 8th term is -8, the first term of the serie is	A. 13 B. -13 C. 18 D. -10
2	If eccentricity of ellipse becomes zero then it takes the form of	A. A parabola B. A circle C. A straight line D. None of these
3	The solution set of the inequality ax + by < c is	A. straight line B. half plane C. parabola D. none of these
4	Question Image	A. Does not exist because f is unbounded B. Is not attained even though f is bounded C. Is equal to 1 D. Is equal to -1
5	Question Image	C. 16 D. None of these
6	In R the left cancellation property w.r.t addition is	
7	If ax + bx + c =0 is satisfied by every value of x,then	A. b = 0,c = 0 B. c = 0 C. b = 0 D. a = b = c = 0
8	The set of all positive even integers is	A. Not a group B. A group w.r.t subtraction C. A group w.r.t division D. A group w.r.t multiplication
9	The sum of all even numbers less than 100 is	A. 2450 B. 2352 C. 2272 D. 2468
10	sin h x = _____	
11	Question Image	A. direction ratios B. direction cosines C. direction angles D. none of these
12	Question Image	A. An ellipse B. A parabola C. A circle D. A hyperbola
13	Question Image	A. sec x tan x B. cos²x C. sin²x D. sec²x
14	If |αi + (α+1)j +2k| =3 then value of α is	A. 1,2 B. -1,-2 C. 1,-2 D. -1,2
15	Two balanced dice are tossed once, the sample space when the integers on the faces of two dice are the same is	A. {(1, 1), (2, 2), (3, 3)} B. {(4, 4), (5, 5), (6, 6)} C. {(1, 1), (2, 2), (3, 3), (4, 4), (5, 5), (6, 6)} D. None of these
16	Question Image	A. parallel vectors B. perpendicular vectors C. concurrent vectors D. collinear vectors

17	The order of the matrix A is 3 x 5 and that of B is 2 x 3.The order of the matrix BA is	A. 2 x 3 B. 3 x 2 C. 2 x 5 D. 5 x 2
18	Question Image	A. 1 B. 2 C. 3 D. 4
19	The mid point of the line segment joining the points (3,-1) and (-3,1) is	A. (3,-1) B. (0,0) C. (2,2) D. (4,4)
20	cos 2$\alpha =$	A. sin²α+ cos²α B. -cosθ C. tanθ D. None of these