Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	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
3	Question Image	A. Hermitian matrix B. Skew-hermitian matrix C. Symmetric matrix D. Identity matrix
4	Every subset of a finite set is	A. Disjoint B. Null C. Finite D. Infinite
5	If the cutting plane is slightly tilted and cuts only one nappe of the cone, the intersection is	A. an ellipse B. a hyperbola C. a circle D. a parabola
6	The point of concurrency of the angle bisectors of a triangle is called	A. incentre B. circumcentre C. e-centre D. centroid
7	Question Image	
8	Domain of 3 sin x is _____	A. [-3, 3] B. R C. Positive real numbers D. None of these
9	Let S_n denote the sum of the first n terms of an A.P. If $S_{2n}= 3 S_n$: S_n is equal to	A. 4 B. 6 C. 8 D. 10
10	Question Image	
11	A farmer possesses 100 hectometers of land and wants to grow corn and wheat. Cultivations of corn requires 3 hours per hectometer while cultivation of wheat requires 2 hours per hectometer. Working hours cannot exceed 240. If he gets a profit of Rs. 20 per hectometer for corn and Rs. 15 per hectometer for wheat. The profit function for the farmer is	A. $P(x, y) = 20x + 15y$ B. $P(x, y) = 2x + 3y$ C. $P(x, y) = x + y$ D. $P(x, y) = 3x + 2y$
12	I is not	A. Real number B. Natural number C. Prime Number D. Whole Number
13	Co-ordinate of a point on the parabola $y^2 = 8x$ whose focal distance is 4 are:	A. (2 , 4) B. (-2 ,-4) C. (-2, 4) D. (2,-4)
14	The value of i^{4n+1}	A. 1 B. -1 C. i D. i^2
15	Question Image	
16	Question Image	A. cos x B. sec x tan x C. $\sec^2 x$ D. $-\csc^2 x$
17	Point (2,0) lies on trigonometric function f(x)=_____;	A. sinx B. cosx C. tanx D. secx

18	Question Image
19	Question Image
20	Question Image