Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The domain of the principle cos function is	
2	The process of finding a function whose derivative is given is called a	A. Differentiation B. Integration C. Differential D. None
3	Question Image	A. -1 B. 0 C. 1 D. None of these
4	Question Image	
5	Question Image	A. direction ratios B. direction cosines C. direction angles D. none of these
6	The value of $\sin^{-1} 5/13$ is equal to	A. Cos 5/13 B. Tan⁻¹ 5/12 C. cos⁻¹5/12 D. 2 cos⁻¹4/5
7	Which of the vectors have opposite direction?	
8	If A is a set then any subset R of A x A is called	A. relation on A B. relation on B C. relation from A to B D. relation from B to A
9	The period of the trigonometric function y = sin x cos x is	A. 2π B. π C. 4π D. π / 2
10	Question Image	A. 1 B. 2 C. 3 D. 4
11	(1, 2) is in the solution of the inequality	A. 2x + y > 8 B. 2x + y <u><</u> 6 C. 2x - y > 1 D. 2x + 3y < 2
12	If A = $[a_{ij}]$ is (m x n) matrix, then transpose of A is of the order	A. m x m B. m x n C. n x n D. n x m
13	To express a single rational fraction as a sum of two or more single rational fractions which are called	A. improper fractions B. Partial fractions C. mixed form D. Polynomials
14	For a set A, A∪Ac= ----------	A. A B. ∅ C. Ac D. U
15	Question Image	
16	Question Image	A. 2x cos x2 B. 2sinxcosx C. - sin x2 D. 2x sin x2
17	The slope of the tangent at the point (h,h) of the circle x2 +y2 =a2 is	A. 0 B. 1 C. -1 D. h
		A. an even function

18	f(x) = x3-x/x2+1 is :	B. an odd function C. an even and implicit function D. neither even nor a odd
19	The center of the sphore which passes thro' (a, 0, 0), (0, b, 0), (0, 0, c) and (0, 0, 0) is	
20	Question Image	B. ln(x²- x + 1) + c D. ln(2x - 1) + c