Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. $a_1 + a_2$ B. $a^2{}_1 + a^2{}_2$
2	The solution set of the equation $4\cos^2 x - 3 + 0$ is	D. none of these
3	Question Image	A. [0, 0, 0] B. [1, 0, 0] C. [0, 1, 0] D. [0, 0, 1]
4	Question Image	A. 2C B. C^3 C. 1 D. 0
5	A cone is generated by all lines through a fixed point and the circumference of	A. a Circle B. an ellipse C. a Hyperbola D. None of these
6	Arithmetic mean between x - 3 and x + 5 is	A. x + 1 B. x + 2 C. x + 3 D. x + 4
7	Question Image	A. 120 B. 5 C. 4 D. 6
8	If a, b, c are in AP., a, b, c are in G.P. then A, $m^2 b$, c are in	A. A.P. B. G.P. C. H.P. D. None of these
9	The point of concurrency of the medians of the ΔABC is called its	A. Orthocenter B. Centriod C. Circumcentre D. Incentre
10	Period of tan 4x is _____	
11	s > t then	A. $(s - t)^2 > (t - s)^2$ B. $(s - t)^2 < (t - s)^2$ C. $(s - t)^2 = (t - s)^2$ D. None
12	Question Image	
13	The minimum value of the quadratic function $f(x) = 5 x 2-11$, is	A. -11 B. 6 C. -7 D. 7
14	There are 16 point in a plane, in which 6 are collinear. how many lines can be drawn by joining these points?	A. 10 B. 66 C. 71 D. 106
15	The number of tangents to the circle $x2+ y2 -8x -6y +9 =0$ which pass through the point (3,-2) is	A. 2 B. 1 C. 0 D. None of these
16	Question Image	D. none of these
17	The square matrix A is skew Hermitian when (A)'=	A. A B. A' C. -A D. A

18	Question Image	
19	Question Image	A. 0 B. -1 C. 1 D. 2
20	$\sin[\cot^{-1}\{\cos(\tan^{-1}x)\}]=$	