Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The numbers of G_1, G_2, G_3..... $G_n$are called n geometric means between a and b is a, G_1, G_2,G_3, ... G_n, b are in	A. H.P. B. A.P. C. G.P. D. None of these
2	Question Image	A. 30° B. 45° C. 60° D. 75°
3	i =	
4	The period $\sin^2\theta$is	A. π² B. π C. 2π D. π/2
5	The difference of two consecutive terms of an A.P. is called _____	A. General term B. Common ratio C. Common difference D. None of these
6	Question Image	A. 1 / 2 B. 1 / 3 C. 1 / 4 D. None of these
7	If a, b, c are in AP., a, b, c are in G.P. then A, m^2b, c are in	A. A.P. B. G.P. C. H.P. D. None of these
8	In the expansion of $(a + x)^n$the general term $T_{r+1}$is	
9	The parabola y^2= x is symmetric about	A. x-axis B. y-axis C. Both x and y-axis D. The line y = x
10	The exact value of cos-1 (0) is	A. π/2 B. -π/2 C. 3π D. π-π/6
11	p, q, r and s are integers. If the A.M. of the roots of x2- px + q2= 0 and G.M. of the roots of x2- rx + s2= 0 are equal, then	A. q is an odd integer B. r is an even integer C. p is an even integer D. s is an odd integer
12	A chimney is such that on walking towards it 50 m in a horizontal line through its base the angular elevation of its top changes from 30° to 45°. The height of the chimney is	
13	Question Image	A. Identity matrix B. Diagonal matrix C. Null matrix D. Hermitian matrix
14	A conjunction of two statement p and q is true only if	A. p is true B. q is true C. Both p and q are true D. both p and q are false
15	The set of complex numbers forms	A. Commutative group w.r.t addition B. Commutative group w.r.t multiplication C. Commutative group w.r.t division D. Non commutative group w.r.t addition
16	ax2 +2hxy +by2 +2gx +2fy +c =0 may represent an ellipse if	A. h2 -ab <0 B. h2 -ab≠ 0 C. h2 -ab =0

		D. h2 -ab >0
17	Question Image	
18	Question Image	
19	The 26th term of the A.P -2,-4,10,.....is	A. 136 B. -136 C. 148 D. -148
20	The slope of the normal at (4,3) to the circle $x^2+y^2=25$ is	A. 3/4 B. -3/4 C. 4/3 D. -4/3