Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Z is a	A. Infinite set B. Finite set C. Singleton set D. Set of all integers
2	If A, G, H are the arithmetic, geometric and harmonic means between a and b respectively then A, G, H are in	A. A. P. B. G. P. C. H. P. D. None of these
3	Additive inverse of - a - b is	A. a B. -a + b C. a - b D. a + b
4	The Domain of y = sin x is _____	A. Set of real numbers B. Rational C. Irrational no. D. None of above
5	Question Image	
6	A square matrix A for which A^t= -A is called a	A. Column matrix B. Symmetric matrix C. Skew-symmetric matrix D. Row matrix
7	Question Image	
8	Question Image	A. 2 B. 4 C. 8 D. 16
9	Question Image	A. -1 B. 0 C. 2 D. 1
10	Question Image	A. 3 sec²x B. 3 sec²3x C. sec²3x D. sec²x
11	If f(√x)=sin x , then f'(x) =_____;	A. 2xcosx2 B. cosx2 C. cos√x D. None of these
12	For any real numbers x,y,xy=o ⇒	A. x ≠ 0 ∧ y ≠ 0 B. x = 0 ∨ y = 0 C. x = 0 D. y = 0
13	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
14	Question Image	A. A finite set B. An infinite set C. An empty set D. None of these
15	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
16	Let a_1, a_2, a_3, $a_4$and $a_5$be such that a_1, a_2, and $a_3$are in A.P., a_2, $a_3$and $a_4$are in G.P and a_3, $a_4$and $a_5$are in H.P. Then, a_1, $a_3$and $a_5$are in	A. G.P. B. A.P. C. H.P. D. None of these

17	The line Ax + By + C = 0 will touch the circle $x^2 + y^2 = \lambda$ when	A. C²=λ(A²+ B²) B. A²=λ(A²+ C²) C. B²=λ(A²+ C²) D. None of these
18	A and B be two square matrices and if their inverse exist, the $(AB)^{-1}$=	A. A⁻¹B⁻¹ B. AB⁻¹ C. A⁻¹B D. B⁻¹A⁻¹
19	99th term of the series 2 + 7 + 14 + 23 + 34 + ... is	A. 9998 B. 9999 C. 10000 D. None of these
20	Question Image	