Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	If f(x) = tan x then f(0) is	A. 0 B. 1 C. 1/2
3	If the elevation of the sun is 30°, then the length of the shadow cast by a tower of 150 ft height is	
4	If a≠ , b≠ 0 and|a=b|=|a-b|,then vectors a and b are:	A. Parallel to each other B. Perpendicular to each other C. Inclined at 60^o D. neither parallel nor perpendicular
5	Question Image	D. all are correct
6	Question Image	A. 30° B. 60° C. 45° D. None of these
7	Question Image	
8	The solution set of the equation |3x + 2| = 5 is	
9	1^0= _____	A. 360' B. 60" C. 60' D. 3600'
10	The greatest term in the expansion of $(3+2x)^9$, when x=1 is	A. 4th B. 4th and 5th C. 5th D. 6th
11	The eccentricity of the conic $9x^2$- $16y^2$= 144 is	A. 4/5 B. 5/4 C. 4/3 D. 3/4
12	A triangle which is not right angle is called _____ triangle	A. acute B. Obtuse C. Right D. Oblique
13	If p, q, r and in A.P., a is G.M. between p and q and b is G.M. between q and r, then a^2, q^2, $b^2$are in	A. A.P. B. G.P. C. H.P. D. None of these
14	The second degree equation of the form Ax2 +By2 +Gx +Fy +C =0 represent hyperbola if	A. A = B≠ 0 B. A≠ B and both are of same sign C. A≠ B both are of opposite sign D. Either A = 0 or B =0
15	The tangents drawn from the point P to a circle are real and coincident if	A. P is on the circle B. P is inside the circle C. P is outside the circle D. none of these
16	The fixed point from which all the points of a circle are equidistant is called the	A. chord of the circle B. centre of the circle C. diameter of the circle D. radius of the circle
17	If ∀a,b ε R,then a +b ε R is a property	A. Closure law of addition B. Associative law of addition C. Additive inverse D. Additive identity
18	The set {1, -1, i, -i}	A. Form a group w.r.t addition B. Form a group w.r.t multiplication C. Does not form a group w.r.t multiplication

		D. Not closed under multiplication
19	Question Image	A. 1 B. 0 C. 5 D. 2
20	If a set S contains "n" elements then P (S) has ..... number of elements	A. 2ⁿ B. 2²ⁿ C. 2 . n D. n²