Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	The function {f(x,y)|y = ax2 +bx +c} is	A. One-one function B. Constant function C. Onto function D. Quadratic function
3	The third term of a G.P. is 4, The product of first five terms is	A. 43 B. 45 C. 46 D. None of these
4	The additive identity of real number is	A. 1 B. 2 C. 1/2 D. 0
5	The standard form of the quadratic function f(x) = $-x^2$ +4x+2, is	A. (x-2)²+6 B. -(x-2)² + 6 C. (x-3)²+5 D. (x+4)²-7
6	If G is the centroid of the triangle, then GA +GB+GC=	A. 0 B. 1 C. -1 D. 3
7	Question Image	A. 0 B. 1 C. -1 D. none of these
8	If n is any positive integer then $4^n>3^n+4$ is true for all	
9	Question Image	A. Right angled B. Obtuse angled C. Isosceles D. Equilateral
10	Question Image	A. I quadrant B. II quadrant C. III quadrant D. IV quadrant
11	Period of tan x is _____	
12	The perpendicular bisector of any chord of a circle	A. Passes through the centre of the circle B. Does not pass through the centre of the circle C. May or may not pass through the centre of the circle D. None of these
13	2cos2 a/2 =_____;	A. 1+sina B. 1-sina C. 1+cosa D. 1-cosa
14	The coordinates of the point that divides the join of A(-6,3) and B(5, -2) in the ratio 2:3 internally	
15	If the line 2x -y +k =0 is a diameter of the circle x2 +y2 +6x -6y +5 =0 then k is equal to	A. 12 B. 9 C. 6 D. 3
16	The sample space for tossing a coin once is	A. {T, T} B. {H, H} C. {H, T} D. None of these
17	Consider the equation px2 + qx + r = 0 where p,q,r are real The roots are equal in magnitude but opposite in sign when	A. q = 0, r = 0,p ≠ 0 B. p = 0,qr≠ 0 C. r = 0,pq≠ 0

	magnitude but opposite in sign when	C. $r = 0, pq \neq 0$ D. $q = 0, pq \neq 0$
18	If $b^2 - 4ac$ is positive then the roots of the equation are	A. Real B. Imaginary C. Positive D. Negative
19	Question Image	A. G.P B. H.P. C. A.P. D. No particular sequence
20	If $a (p + q)^2 + bpq + c = 0$ and $a (p + r)^2 + 2 bpr + c = 0$, then qr equals	A. p²+ c/a B. p²+ a/c C. p²+ c/a D. p²- c/a