Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	In quadratic equation $y=ax^3+bx+c$, if b and c are both zero then the graph is	A. Symmetric w.r.t.y-axis B. Symmetric w.r.t.x-axis C. Straight Line D. Circle
2	Question Image	
3	The point (x_1, y_1) lies outside the circle $x^2+y^2+2gx+2fy+c=0$ if	
4	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
5	Question Image	A. cosec x + c B. -cosec x + c C. -sec x + c D. sec x + c
6	If $(1+x-2x^3)^6= 1+a_1x+a_2x^2+a_3x^3+$ ..... the the value of $a_2+a_4+a_6+$ .....$+a_{12}$will be	A. 32 B. 31 C. 64 D. 1024
7	Question Image	
8	Question Image	A. 1 B. 1/2 C. 0 D. None
9	Sine rule for a triangle states that	A. a/sin A = b/sin B = c/sin C B. sin A/a = sin B/b = sin C/c C. a/sin A + b/sin B + c/sin C D. 2a/sin A = 2b/sin B = 2c/sin C
10	5th term of a G.P. is 2, then the product of first 9 terms is	A. 256 B. 128 C. 512 D. None of these
11	There are _____ types of rational fraction	A. Three B. Four C. Five D. Two
12	For any integer k, w^n= _____ when n = 3k	A. 1 B. 2 C. 0 D. -4
13	If A = [aij]mxpand B =[aij]pxnthen order of BA is	A. m x n B. p x n C. n x m D. None of these
14	0 is a symbol of	A. singleton set B. Empty set C. Equivalent set D. Infinite set
15	If -1 < x < 0, which of the following statements must be true?	A. x < x²< x³ B. x < x³< x² C. x²<

		x³< x D. x²< x < x³
16	The additive inverse of 1 is	A. 1 B. -1 C. 0 D. Does not exist
17	The point R dividing internally the line joining the points $P(x_1, y_1)$ and $Q(x_2, y_2)$ in the ratio K_1: K_2has the coordinates	
18	If the 4th term in the expansion of $(px + x^{-1})^m$is 2.5 for all x $\in R,\ then$	
19	Question Image	
20	Question Image	A. 2x - 3x + c C. x²- 3x + c