Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The term independent of x is the expansion $(x^3+1/x)^{12}$	A. 295 B. 495 C. 395 D. 722
2	Roots of the equation $9x^2 - 12x + 4 = 0$ are	A. Real and equal B. Real and distinct C. Complex D. None of these
3	Question Image	
4	Question Image	
5	In a quadratic equation with leading co-efficient 1, a student reads the co-obtain the roots as - 15 and -4. The correct roots are	A. 6, 10 B. -6, -10 C. 8, 8 D. -8, -8
6	y=-a is the equation of the directrix of	A. y2 =4ax B. x2=-4ay C. x2=4ay D. y2=-4ax
7	Question Image	
8	Every natural number is	A. A prime number B. An irrational number C. An integer D. An even number
9	For all points (x,y) in fourth quadrant	A. x > 0 , y < 0 B. x > 0 , y > 0 C. x < 0 , y < 0 D. x < 0 , y > 0
10	Tan 30° = _____	
11	Question Image	
12	The vertex of the graph of the quadratic function $f(x) = x2 -10$, is	A. (0 , -10) B. (-10,0) C. (10,0) D. (0,10)
13	Question Image	A. 0 B. 1 C. 2 D. none of these
14	Question Image	
15	Question Image	A. x-axis B. y-axis C. z-axis D. None of these
16	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
17	8 . 7 . 6. 5 in factorial form is	A. electric field

18	Which of the following is a scalar.	B. magnetic field C. weight D. mass
19	Question Image	
20	$1^0 =$ _____	A. 360' B. 60" C. 60' D. 3600'