Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If ab > 0 and a < 0, which of the following is negative?	A. b B. -b C. -a D. (a - b)²
2	The centroid of a triangle divides each median in the ratio	A. 2 : 1 B. 3 : 1 C. 3 : 2 D. 1 : 1
3	Question Image	
4	Distance between A(3, 8), B(5, 6) is	
5	The negative square root of 9 can be written as:	A. -√9 B. √9 C. √18 D. -√18
6	Question Image	A. 1 B. 12 C. 5 D. 29
7	How many arrangements of the letter of the word PAKPATTAN can be made	
8	Two quadratic equation in which xy term is missing and the coefficients of $x^2$and $y^2$are equal, give a linear equation by _____	A. Addition B. Subtraction C. Multiplication D. Division
9	Question Image	
10	The set (Q, .)	A. Forms a group B. Does not form a group C. Contains no additive identity D. Contains no additive inverse
11	Question Image	A. 6, -12, -18 B. -6, 4, 9 C. -6, -4, -9 D. -6, 12, 18
12	The line through the focus and perpendicular to the directrix is called _____ of the parabola	A. axis B. focal chord C. tangent D. latus rectum
13	Question Image	
14	In a school there are 150 students Out of these 80 students enrolled for mathematics class.50 enrolled for English class and 60 enrolled for Physics class The student enrolled for English cannot attend any other class but the students of mathematics and Physics can take two courses at a time find the number of students who have taken both physics and mathematics.	A. 40 B. 30 C. 50 D. 60
15	Question Image	D. none of these
16	if $f(x) = x^3 -3x^2 +5x -1$, then $f(-\sqrt{2})$=	A. $7+7\sqrt{2}$ B. $3+3\sqrt{2}$ C. $-7-7\sqrt{2}$ D. $-3-3\sqrt{2}$
17	How many different 5-digit even numbers are possible form digit 1,2,4,6,8	A. 4 : 4! B. 4! C. 5! D. 4!+4!
18	If Z = (1,2), then Z^{-1} =?	A. (0.2, 0.4) B. (-0.2 ,0.4) C. (0.2,-0.4) D. (-0.2,-0.4)

19	What is the circular measure of the angle between the hands of a watch at 4 O'clock	
20	The mid point of the line segment joining the points (4,0) and (0,4) is	A. (4,4) B. (2,2) C. (-4,-4) D. (-2,-2)