

19.08.19 EVERWIN VIDHYASHRAM Marks: 25
STD: X PERIODIC ASSESSMENT- II Time:1hr
MATHS T.T

- I. Answer the following: $4 \times 1 = 4$
1. The distance between the points (-4,1) and (-2,-3) is ____.
 2. The area of a triangle is ____
 3. The sum of first n odd natural numbers is ____.
 4. If 18,a,b,-3 are in A.P. then $a+b=$ ____.
- II. Answer the following: $2 \times 2 = 4$
5. How many number of two digits are divisible by 7?
 6. Which point on x-axis is equidistant from (5,9) and (-4,6)?
- III. Answer the following: $3 \times 3 = 9$
7. The sum of 5th and 9th terms of an A.P is 72 and the sum of 7th and 12th terms is 97. Find the A.P.
 8. Find the ratio in which the line segment joining the points (-3,10) and (6,-8) is divided by (-1,6)

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9. The sums of n terms of three arithmetical progressions are S_1, S_2 and S_3 . The first term of each is unity and the common differences are 1,2,3 respectively. Prove that $S_1 + S_3 = 2S_2$.

- IV. Solve: $2 \times 4 = 8$
10. If P (-5,-3) Q(-4,-6) R(2,-3) and S(1,2) are the vertices of a quadrilateral PQRS, find its area.
 11. Ramkali would need ₹1800 for admission fee and books etc, for her daughter to start going to school from next year. She saved ₹50 in the first month of this year and increased her monthly saving by ₹20. After a year, how much money will she save? Will she be able to fulfill her dream of sending her daughter to school?

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