#### Set - 2

# INDIAN SCHOOL SOHAR FORMATIVE ASSESSMENT – 2 MATHEMATICS

## Class: X Date: 01/06/14 General Instructions

1. All questions are compulsory.

2. The question paper consists of 09 questions divided into four sections A, B, C and D Section A comprises of 3 questions of one mark each, section B comprises of 2 question of 2 marks, section C comprises of 03 questions of 3 marks each, and section D comprises 1 question of four markh.

## SECTION - A

- 1. If x = a , y = b is the solution of the pair of equations x y = 2 and x +y = 4 ,find the values of "a " and "b"
- 2. If 3x 4y = 5 is the given equation, Write two equations, one is parallel to the given line and the other is having unique solution with the given equation.
- 3. In the following figure, AD = 3 cm , DB = 4.5 cm, AE = 5 cm and DE parallel to BC, find AC

# **SECTION – B**

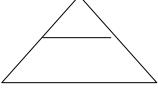
- 4. For which value of "k" will the following pair of linear equations have no solution 3x + y = 1and (2k - 1)x + (k - 1)y = 2k+1
- 5. In a quadrilateral if the diagonals intersect each other proportionately prove that it is a trapezium

## SECTION – C

- 6. Determine graphically whether the pair of linear equations2x y = 4 and x + y = 5 is consistent or in consistent
- 7. Using basic proportionality theorem, prove that a line drawn through the mid-point of one side of a triangle parallel to another side bisects the third side.
- 8. If a line drawn parallel to any side of the triangle divides the other side proportionately Prove

#### **SECTION – D**

9. A boat goes 24 km upstream and 28 km downstream in 6 hours. It goes 30 km upstream and 21 km downstream in  $6\frac{1}{2}$  hours. Find the speed boat in still water



Time: 40 Mts Marks: 20