INDIAN SCHOOL SOHAR FORMATIVE ASSESSMENT – 2 <u>MATHEMATICS</u>

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

1. All questions are compulsory.

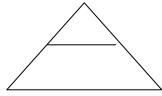
2. The question paper consists of 09 questions divided into four sections A, B, C and D Section A comprises of

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 marks each.

SECTION – A

- 1. If x = a, y = b is the solution of the pair of equations x y = 4 and x + y = 5, find the values of "a " and "b"
- 2. If 4x 3y = 7 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 = 1.5 cm, DB = 2 cm, AE = 1 cm and DE parallel to BC find AC



SECTION – B

- 4. For what value of "k" will the pair of equations kx + 3y (k 3) = 0 and 12x + ky k = 0 have infinitely many solutions,
- 5. In a trapezium prove that the diagonals intersect each other proportionately.

SECTION – C

- 6. Determine graphically whether the pair of linear equations 2x 3y = 0 and x + y = 5 is consistent or in consistent
- 7. If a line drawn parallel to any side of the triangle divides the other side proportionately Prove
- 8. Using the converse of basic proportionality theorem prove that the line joining the mid-points of any two sides of a triangle is parallel to the third side.

SECTION – D

9. A person can row 8 km upstream and 24 km downstream in 4 hours. He can row 12 km downstream and 12 km upstream in 4 hours .Find the speed of person in still water and also the speed of the current.

Set - 1

Time: 40 Mts

Marks: 20