Std.: 9 (English)   **Maths - II**   **Marks: 20**

Date: **Time: 1 hour**

Chapter: 1

Q.1 A) Choose the correct alternative.   **(2)**

1) If P is the mid point of Seg AB and AB = 11 cm, find AP

a. 5 cm   b. 5.5 cm   c. 4.5 cm   d. 4 cm

2) From the given statement, list the antecedent and consequent

If two lines intersect, then the vertically opposite angles are congruent.

a.   Antecedent : Two lines intersect

b.   Consequent : vertically opposite angls are congruent

c.   Both a and b

d.   Antecedent : vertically opposite angles are congruent

e   Consequent : Two lines intersect.

B) Solve the following questions.   **(2)**

1) If A is the midpoint of seg PQ and PQ = 9cm, find AP.

2) Write the following statement in conditional form.

Every rhombus is a square.

Q.2 A) Complete the following Activities. (Any one)   **(2)**

1) If AB = 5 cm, BP = 2 cm and AP = 3.4 cm, compare the segments.

AB= 5 cm, BP = 2 cm, AP = 3.4 cm

5 _____ 3.4 _____ 2

$\therefore$ _____ > l(AP) > _____

2) If the co-ordinate of A is x and that of B is y, find d(A,B)

x = 4, y = -8

A $\leftrightarrow$ x ;   B $\leftrightarrow$ y

x = 4 ,   y = -8

x > y

d(A, B)   =   _____

=   _____

=   _____

d(A, B)   =   _____ units

B) Solve the following questions. (Any two)   **(4)**

1) Observe the number line and find the distance of d(A, F) and d(B, I)
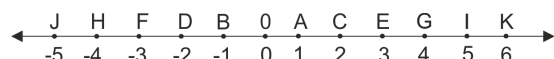
2) Sketch proper figure and write the answers of the following questions.

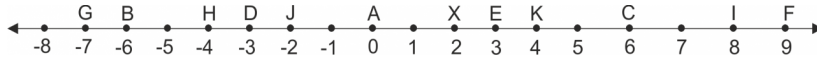If R - S - T and l(ST) = 3.7, l(RS) = 2.5,   then l(RT) = ?

3) Draw a labelled figure showing information in each of the following statements and write the antecedent and the consequent.

Two equilateral triangles are similar.

Q.3 **Solve the following questions. (Any one)** **(3)**

1) Answer the following Question with the help of figure.

	G	B		H	D	J		A		X	E	K		C		I	F
-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9

a) State the Points which are equidistant from point X.

b) Find d(H,A)

c) Write the co-ordinates of point on the number line which are at distance of 6 units from A?

2) The following table shows points on a number line and their co-ordinate. Decide whether the pair of segments given below the table are congruent or not.

Point	A	B	C	D	E
Co-ordinate	- 3	5	2	- 7	9

seg BC and seg AD

Q.4 **Solve the following questions. (Any one)** **(4)**

1) The co-ordinates of the points on the number line are as follows.

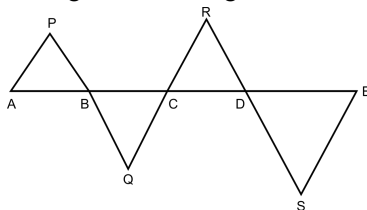| Points	P	Q	R	S	T
Co-ordinates	– 3	5	2	– 7	9

Find the lengths of: seg PQ, seg PR, seg PS, seg PT.

2)

In the figure, l(AC) = 8, l(BC) = 5

Seg BD ≅ seg CE ≅ seg AC, then determine whether the segments in each of the following pairs are congruent or not.

i. seg BC and seg DE

ii. seg AB and seg CD.

Q.5 **Solve the following questions. (Any one)** **(3)**

1) On a number line, co-ordinates of P, Q, R are 3, -5 and 6 respectively. State with reason whether the following statements are true or false.

d(R,P) + d(P,Q) = d(R,Q)

2) On a number line, co-ordinates of P, Q, R are 3, -5 and 6 respectively. State with reason whether the following statements are true or false.

d(P,R) + d(R,Q) = d(P,Q)