SUB:-MATHEMATICS, STD-VI

BASIC GEOMETRICAL CONCEPT

HOTS(Advance)

- 1) Are horizontal line and vertical line always intersect at right angles? Give reasons.
- 2) A fixed point P is given. How many rays can be drawn with P as initial point?
- 3) Is the length of line segment AB and line segment BC make the length of line segment AC in the figure?



- 4) How is globe different from a stamp?
- 5) Generally a statement ends with a full stop. What is the term used to represent full stop in geometry?

Short answer type questions (I)

- 6) With the help of figures, find the maximum number of points of intersections of
 - i. Four lines in a plane
 - ii. Five lines in a plane
- 7) If PQ is a ray
 - i. What is its starting point?
 - ii. Where does the point Q lie on the ray?
- 8) Draw the following figures.



b. RS intersecting TU

- 9) Here is a ray OA. It starts at O and passes through point A. It also passes through point B.
 - i. Can we also name it as OB? Why?
 - ii. Can we write OA as AO? Justify.

- 10) Look at the figure and answer the questions.
- BCDEF
- i. How many line segments are there in all?
- ii. Name one line segment whose end point is
 - a. E
 - b. C
- 11) In the given figure, name
 - i. The lines concurrent at point A
 - ii. All the sets of collinear point
 - iii. The point of intersection of 3 lines 1, p and n

