

Answer. 1. Part (i)

Geometric Drawing:- The type of drawing which include projections of Geometrical shapes like lines, Square, triangle etc and is made using proper dimensions.

Part ii) Trimmed size of A0 Drawing sheet as per I.S
= 841 mm \times 1189 mm.

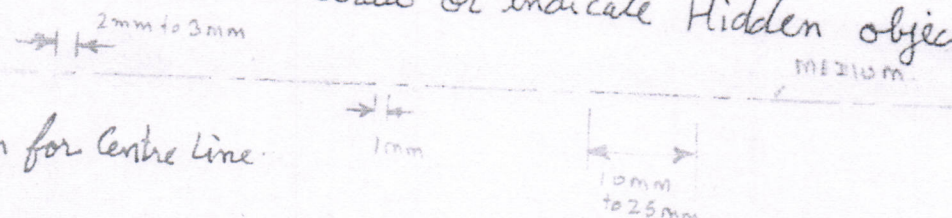
Part iii) Use of Set Square:-

- a) To draw horizontal lines.
- b) To draw parallel lines.
- c) To draw 45° , 30° and 60° Angles.

Part iv) Hidden Line is a ~~space~~ equally spaced dashed line, which is used to draw or indicate Hidden objects.

Part v)

Convention for Centre Line.



Part vi)

Gothic Lettering:- The type of Lettering in which all letters are of uniform width or thickness.

Part vii)

Dimensioning:- It is defined as an art of showing the size and location of different parts of an object on a drawing.

Part VIII) Representative Fraction:- It is the ratio of the distance on drawing to the corresponding actual distance of the object.

$$R.F = \frac{\text{Distance on drawing of the object}}{\text{Corresponding actual distance of the object}}$$

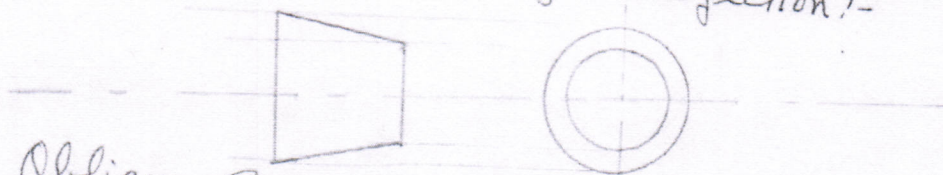
(Both are in same units)

Part IX) Projection:- It is the shadow of an object obtained on a piece of paper.

Part X) II Quadrant:- The type of Quadrant which lies above H.P and behind V.P.

Part XI)

Symbol for Third Angle Projection:-



Part XII)

Oblique Projection:- The type of pictorial projections in which one face of the object is parallel to the plane of projection, and adjacent face is inclined at an angle of 45° to the plane of projection is called Oblique Projection.

Vertical
Inclined
at 15°

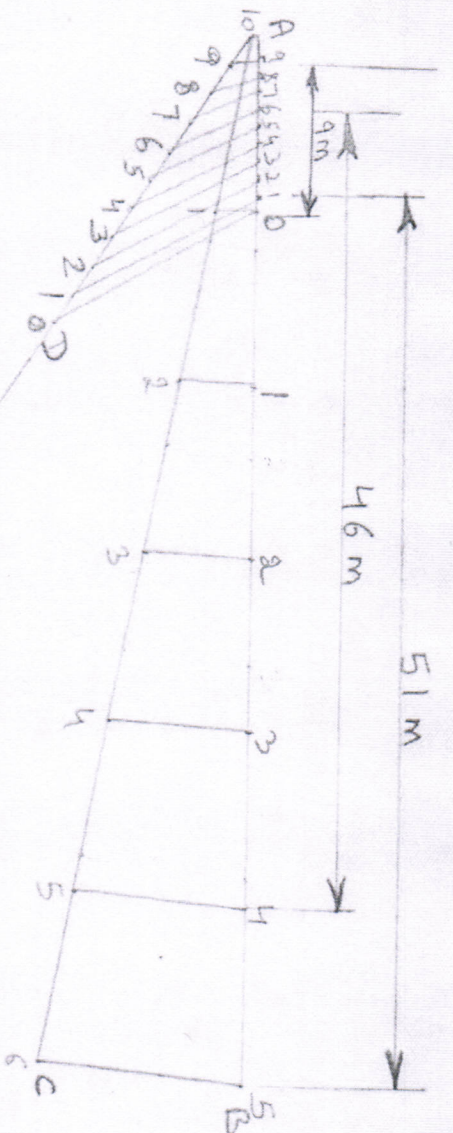
Vertical

Inclined
at 15°

Vertical

35mm

Answer 3



$$R.F = \frac{1}{400}$$

Length of Scale:- $\frac{1}{400} \times 60 \times 100$
 $= 15 \text{ cm.}$

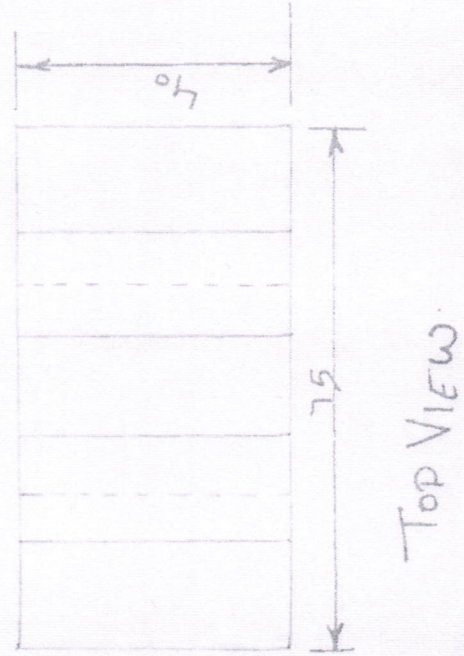
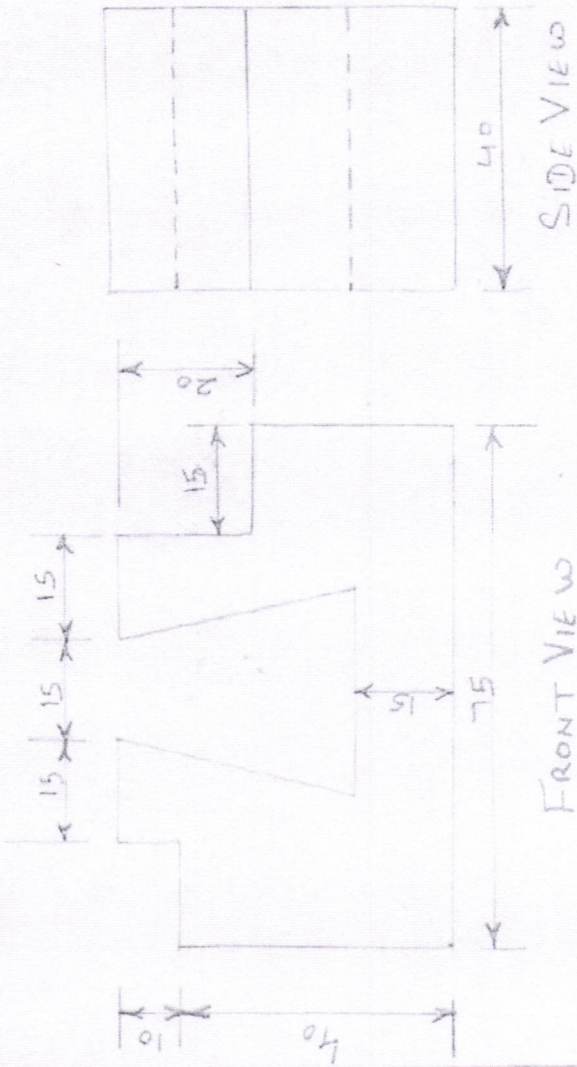
Construction:- Draw line AB of 15 cm and divide it into 6 equal parts.

Draw line AC at any acute angle of 15 cm and divide it in to 6 equal parts.

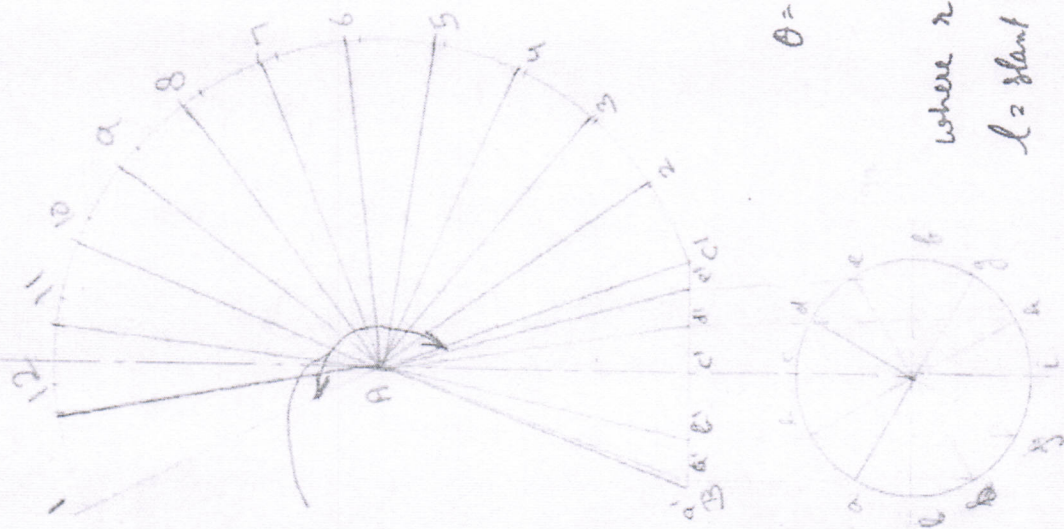
Draw line AD out any acute angle and divide it into 10 equal parts.

Use marks the corresponding distances 9 m, 46 m and 51 m on the scale, as shown above.

Answer 5

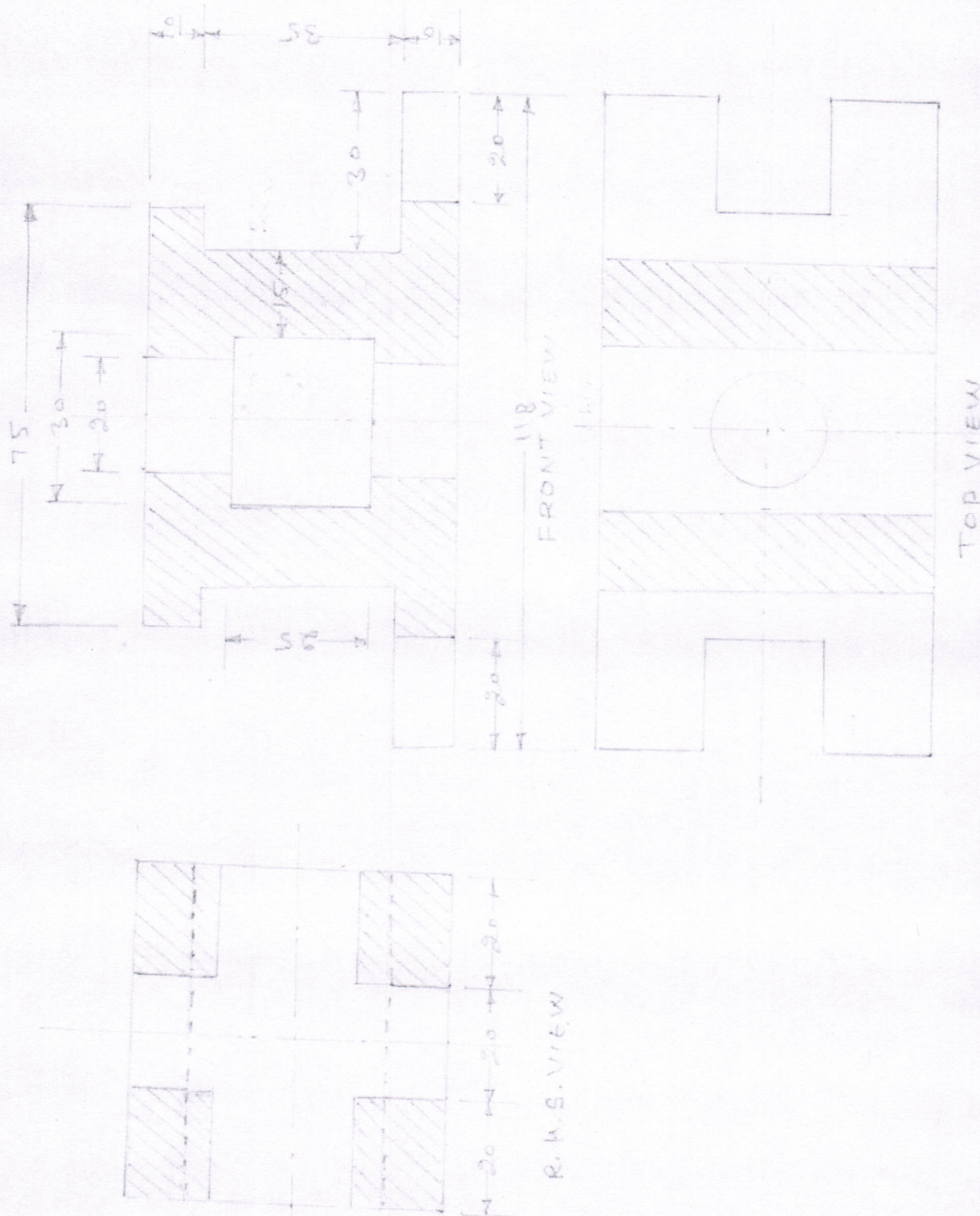


soln. 4



$$\theta = 360 \times \frac{r}{l}$$

where $r = 16\text{mm}$
 $l = \text{slant height} = 48\text{mm}$



2022-6