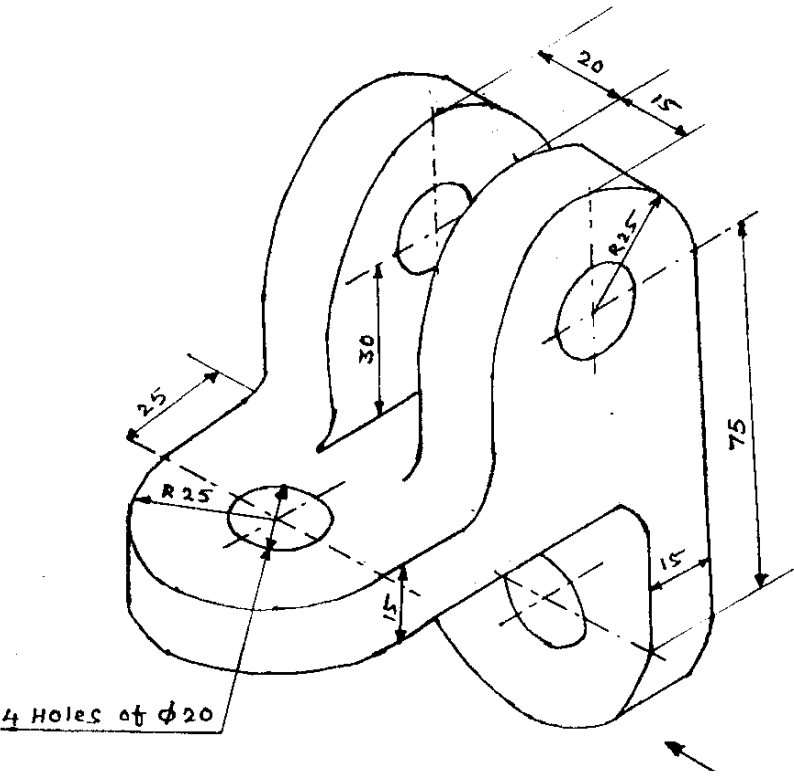


Engineering Drawing Assignment (06 Marks)

(To be submitted to ED Theory Teacher on or before **05/Oct/2016**)

Q1	A rectangular plot of land measuring 1.28 hectares is represented on a map by a similar rectangle of 8 sq. cm. Calculate RF of the scale. Draw a diagonal scale to read single meter. Show a distance of 402 m on it.
Q2	Draw the locus of a particle moving in such a way that the product of its distance from two fixed lines, at right angles to each other is constant, if a point on the curve is 20 and 45mm from lines. Name the curve and fixed lines.
Q3	A line AB of 90mm long; is inclined at 45° to HP and its top view makes an angle of 60° with XY. The end A is on HP and 12mm in front of VP. Draw its projection and determine its inclination with VP.
Q4	Two straight roads AB and AC are 2km and 1.4km long respectively. AB bears $N40^\circ E$ on a downward slope of 30° . AC bears $S35^\circ E$ on a downward grade of 15° . Draw the projections and find the true length and slope of the new road B to C.
Q5	A plate is of the shape of an isosceles triangle of base 40 and altitude 60mm. Draw the projections of the plate when it is placed such that FV appears as an equilateral triangle of side 40mm and one of edges makes 45° with HP.
Q6	<p>Draw FV, Tv and SV of given object.</p>  <p>The diagram shows an isometric view of a mechanical part. It features a base with a width of 75 mm and a height of 15 mm. The top surface is curved with a radius of R25. There are four holes of diameter $\phi 20$ in the top surface. The part has a total length of 30 mm. The top edge is rounded with a radius of R25. The part is shown in an isometric view with dimensions and a note: "4 HOLES of $\phi 20$".</p>