H.T.No. | | | | | | | | | | |

Code No: ME1501 **GEC-R14**

I B. Tech I Semester Reg./Suppl. Examinations, December 2016

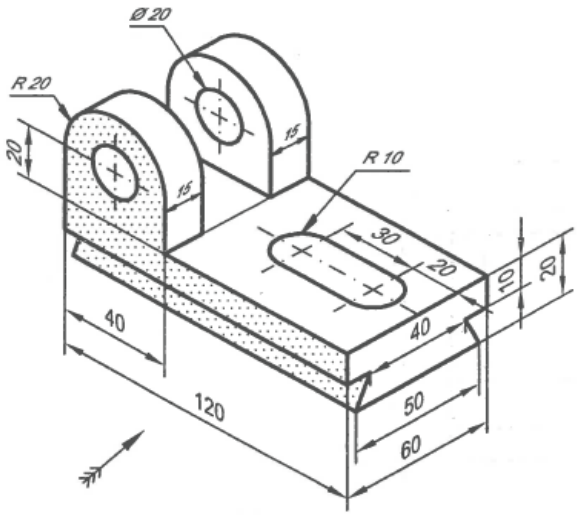
ENGINEERING DRAWING

(Electronics and Communication Engineering)

Time: 3 Hours **Max. Marks: 60**

Note: Answer any Five Questions. All questions carry equal marks.

1. a) Construct a regular hexagon of 25 mm side and inscribe a circle in it. (6M)
   b) Construct a scale of 1.5 inches equal to one foot to show inches and long enough to measure up to 4 feet. (6M)
2. Construct a parabola, with the distance of the focus from the directrix as 50 mm. Also draw normal and tangent to the curve, at a point 40 mm from the directrix. (12M)
3. a) A point P is 20 mm below H.P and lies in the third quadrant. Its shortest distance from xy is 40 mm. Draw its projections. (6M)
   b) The top view of a 75 mm long line measures 55mm. The line is in V.P. Its one end being 25 mm above the H.P. Draw its projections. (6M)
4. A line CD measuring 80 mm is inclined at an angle of 30^0 to HP and 45^0 to VP. The point C is 20 mm above HP and 30 mm in front of VP . Draw the projections of the straight line. (12M)
5. A circular plate of 50 mm diameter appears as an ellipse in the front view having its major axis 50 mm long and minor axis 30 mm long. Draw the top view, when the major axis of the ellipse is horizontal. (12M)
6. Draw the projections of a hexagonal prism of base 25 mm side and axis 60 mm long when it is resting on one of its corners of the base on H.P. The axis of the solid is inclined at 45^o to H.P. (12M)
7. Draw the isometric view of a cylinder of base diameter 25 mm and axis 40 mm long when the axis is horizontal and vertical. (12M)
8. Draw the following views for the object shown. (12M)
   i) Front view ii) Top view iii) Left side view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