

Code: CE1T5, ME1T5, AE1T5

**I B. Tech - I Semester – Regular/Supplementary Examinations  
November 2018**

**ENGINEERING DRAWING  
(Common for CE, ME & AE)**

Duration: 3 hours

Max. Marks: 70

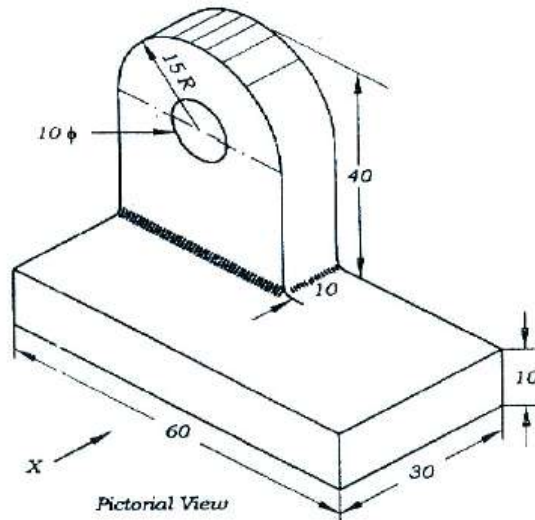
Answer any *FIVE* questions. All questions carry equal marks

5 x 14 = 70 M

1. Construct a diagonal scale of R.F =  $1/6250$  to read up to 1 kilometer and to read meters on it. Show a length of 653 metres on it. 14 M
  
2. Draw a rectangle having its sides 125 mm and 75 mm long. Inscribe two parabolas in it with their axis bisecting each other. 14 M
  
3. a) A point P is 15 mm above HP and 20 mm in front of the VP. Another point Q is 25 mm behind the VP and 40 mm below the HP. Draw projections of P and Q keeping the distance between their projectors equal to 90 mm. Draw straight lines joining (i) their top views and (ii) their front views. 4 M

3. b) A line AB 75 mm long is inclined at  $45^{\circ}$  to the HP and  $30^{\circ}$  to the VP. Its end B is in the HP and 40 mm in front of the VP. Draw its projections. 10 M
4. Draw the projections of a circle of 75 mm diameter having the end A of the diameter AB in the HP and end B in the VP and the surface inclined at  $30^{\circ}$  to HP and at  $60^{\circ}$  to the VP. 14 M
5. A regular pentagonal prism lies with its axis inclined at  $60^{\circ}$  to the HP and  $30^{\circ}$  to the VP. The prism is 60 mm long and has a face width of 25mm. The nearest corner is 10mm away from the VP and the farthest shorter edge is 100 mm from the HP. Draw the projections of the solid. 14 M
6. A hexagonal pyramid base 30 mm side and axis 60 mm long has a face on the HP and the axis parallel to the VP. It is cut by a horizontal section plane which bisects the axis. Draw the front view and sectional top view. 14 M

7. Draw the Front View, Top view & Both side views of the isometric figure shown below. All dimensions are in mm.



14 M

8. Draw the isometric view of the ribbed angle plate as shown in figure. All dimensions are in mm.

14 M

