Subject Code: R13209/R13

I B.Tech II Semester Supplementary Examinations Dec./Jan. - 2015/2016 **ENGINEERING DRAWING**

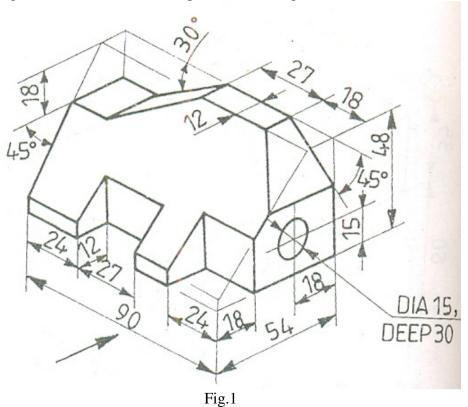
(Common to CSE, PCE, IT, Chem E, Aero E, Auto E, Min E, Pet E, & Metal E) **Time: 3 hours**

Max. Marks: 70

Question Paper Consists of Part-A and Part-B Answering the question in **Part-A** is Compulsory, Three Questions should be answered from Part-B ****

PART-A

- 1. (a) A thin rectangular plate of sides 60mm x 30mm has its shorter side in VP and inclined at 30° to HP. Project its top view, if its front view is a square of 30mm long sides.
 - (b) Draw Fig.1 (i) Front view (ii) Top view (iii) Right side view



[10+12]

PART-B

- 2. (a) Draw a scale of full size, showing 1/100 inch and measure up to 5 inches.
 - (b) Construct a regular pentagon of side 30mm.

[10+6]

3. (a) A point P is 20mm below HP and lies in the third quadrant. Its shortest distance from xy is 40mm. Draw its projections.

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3. (b) The top view of a 75mm long line measures 55mm. The line is in the VP; its one end being 25mm above the HP. Draw its projections.

[8+8]

- 4. (a) The front view of a line AB measures 70mm and makes an angle of 45° with xy. A is in the HP and the VT of the line is 15mm below the HP. The line is inclined at 30° to the VP. Draw the projections of AB, and find its true length, inclination with the HP and its HT.
 - (b) The projections on the XY line of the horizontal and vertical traces of a straight line AB in the first quadrant are 120mm apart. The VT is 100mm above XY and HT 50mm in front of XY. The points A and B are 30mm and 80mm above the HP respectively. Draw the projections.

[10+6]

- 5. (a) Draw the projections of a pentagonal sheet of 26mm side, having its surface inclined at 30° to VP. Its one side is parallel to VP and inclined at 45° to HP.
 - (b) An equilateral triangle of 5cm side has its VT parallel to and 2.5cm above xy. It has no HT. draw its projections when one of its sides is inclined at 45° to the VP.

[10+6]

6. Draw the projections of a cone, base 75mm diameter and axis 100mm long, lying on the ground on one of its generators with the axis parallel to the VP.

[16]

7. Draw the isometric view of Fig.2

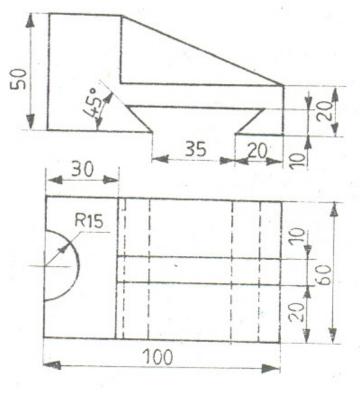


Fig.2

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[16]

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