Code.No: 09A10291 | R09 | SET-4

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
I B.TECH – REGULAR EXAMINATIONS JUNE - 2010
ENGINEERING DRAWING
(COMMON TO EEE, EIE, ECC)

Time: 3hours **Max.Marks:75**

Answer any FIVE questions
All questions carry equal marks

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1(a) Draw a Vernier scale of RF = 1/24 to read yards, feet and inches, and to measure up to 4 yards. Show on it lengths representing
(i) 2 yards 2 feet 10 inches
(ii) 1 foot 3 inches.

(b) Draw a parabola having a base of 80 mm and an axis equal to 80 mm by the tangent method. [15]

2. A 100 mm long line PQ is inclined at 45^0 to the H.P and 30^0 to the V.P. The point P is 10 mm below the H.P. and 25 mm in front of the V.P. Draw its projections and determine its traces, if the point Q lies in the second Quadrant. [15]

3. An isosceles triangle ABC with a 60 mm base AB and altitude 80 mm , has its base in the V.P. and inclined at 30^0 to the H.P. The corner A is 15 mm above the H.P. and the corner C is in the H.P. Draw the projections of the plane. [15]

4. A pentagonal pyramid with a 55 mm base and a 90 mm slant height, has its base on the HP with a side of base perpendicular to the VP. It is cut by a section plane whose VT is inclined at 60° to XY and intersecting the axis at 40 mm from its base. Draw the Front View, Sectional Top View, Sectional Side View, and the true shape of the section. [15]

5. A cylinder with a 60 mm diameter and a 100 mm length has its axis perpendicular to the VP. Another cylinder with a 44 mm diameter and a 120 mm length penetrates the first cylinder. The axis of the penetrating cylinder is parallel to the HP, inclined at 15^0 to the VP, and 8 mm away from the axis of the first cylinder. Draw the two views of the cylinders showing the curves of intersection. [15]

6. A hexagonal prism with a 30 mm base and 45 mm axis has an axial hole with a 30 mm diameter. Draw its isometric projection. [15]

7. Draw the front view, top view and side view of the object whose isometric view is shown in the Figure 4 below (All dimensions are in mm). [15]

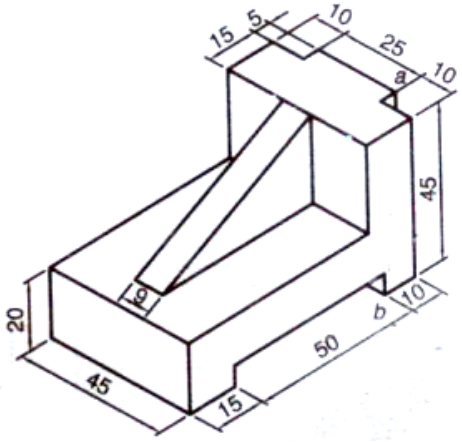


Figure 4

8. A pentagonal plane with a 30 mm side lies on the GP with an edge parallel to and 20 mm behind the PP. The station point is 50 mm in front of the PP, 65 mm above GP, and lies in a CP which is at a distance of 40 mm towards right of the centre of the object. Draw its perspective view. [15]

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