

Code. No: R07A10291

R07

SET-1

I B.TECH – EXAMINATIONS, NOVEMBER - 2010
ENGINEERING DRAWING
(COMMON TO EEE, ECE, CSE, EIE, BME, IT, E.CON.E, CSS, ETM, ECC, ICE & BT)

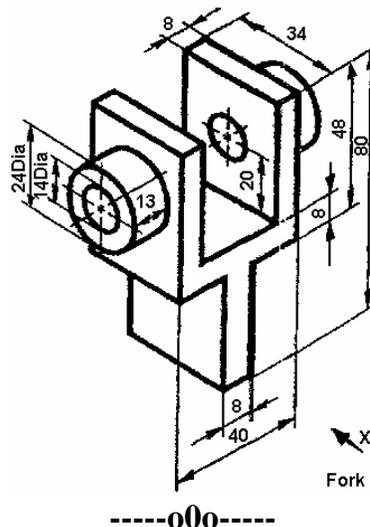
Time: 3hours

Max.Marks:80

Answer any FIVE questions
All questions carry equal marks

- - -

1. Draw any ellipse when the major axis is 120 mm and distance between foci is 80mm by concentric circles methods. Draw Tangent and Normal from any point on the curve. [16]
2. Two straight lines OA and OB make an angle of 70° between them. P is a point 40 mm from OA and 50mm from OB. Draw a hyperbola passing through P, with OA and OB as asymptotes. [16]
- 3.a) A point 'A' is 40 mm from both the reference planes. Draw the projections in all possible positions.
 b) Two pegs fixed on a wall are 4.5m apart. The distance between the pegs measured parallel to the floor is 3m. If one peg is 1.5m above the floor, find the height of second peg and the inclination of the line joining two pegs with the floor. [16]
4. A square ABCD of 40mm side has its corner 'A' in H.P and its diagonal AC is inclined at 30° to H.P and the diagonal BD is inclined at 45° to V.P and parallel to H.P. Draw the projections. [16]
5. Draw the projections of a square pyramid of side 40mm and height 65mm resting on one of its triangular faces in H.P, such that the axis is parallel to V.P. [16]
6. Draw the projections of a cone of base 40mm diameter axis 65mm long lying on one of its generators in H.P, such that the top view of the axis makes an angle of 45° with V.P. [16]
7. A sphere of 25mm diameter is placed centrally on the top of a frustum of square pyramid. The side of the base is 50mm and the side of the top face is 30mm, when the height is 60mm. Draw the isometric view of the combination of the solids.[16]
8. Draw the Front view, top view and side view for the component shown in figure. [16]



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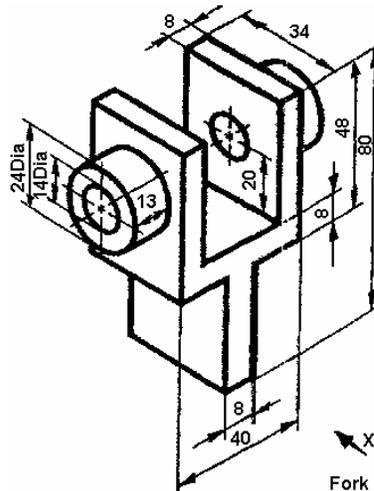
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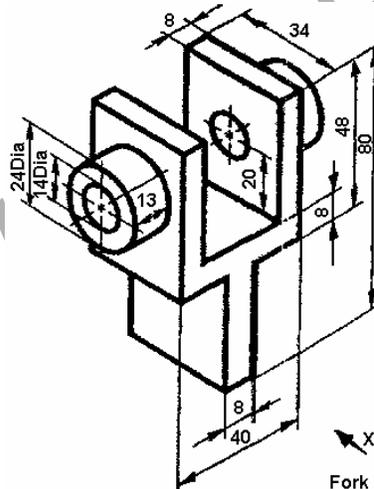
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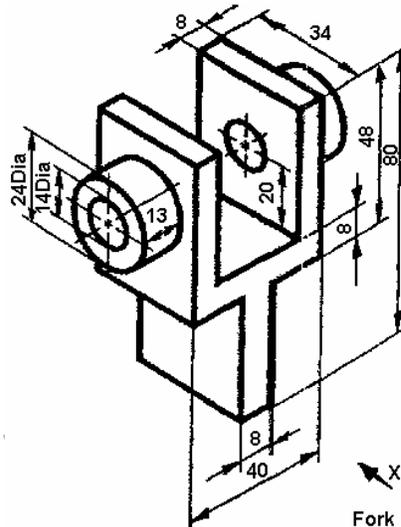
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