JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD
B.Tech I Year Examinations, December-2014/January-2015
ENGINEERING DRAWING
(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 80

Answer any five questions
All questions carry equal marks

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1. Construct an ellipse when the length of the major axis is 120 mm and the distance between the foci is 88 mm, determine the length of its minor axis. And also draw a tangent and normal at any point on the curve.

2. Draw an epicycloid of rolling circle 40 mm which rolls outside another circle of 150mm diameter for one revolution. Draw tangent and normal at any point on the curve.

3. A point A is on H.P and 40 in front of V.P another point B is on V.P and below H.P. The line joining their front views makes an angle of 45^0 with xy. Find the horizontal distance between two points?

4. A regular hexagonal plate of side 35 has one corner touching V.P and another opposite corner touching H.P. the plate is inclined at 60^0 to H.P and 30^0 to V.P. Draw the projections of the plate neglecting thickness?

5. Draw the projections of a cone of diameter of base 40 and axis 60 long, when it is lying on a point of the base on H.P, with its axis inclined at 45^0 to H.P and parallel to V.P. Follow auxiliary plane method.

6. Draw the isometric view of following casting as shown in the figure 1. All dimensions are in mm.
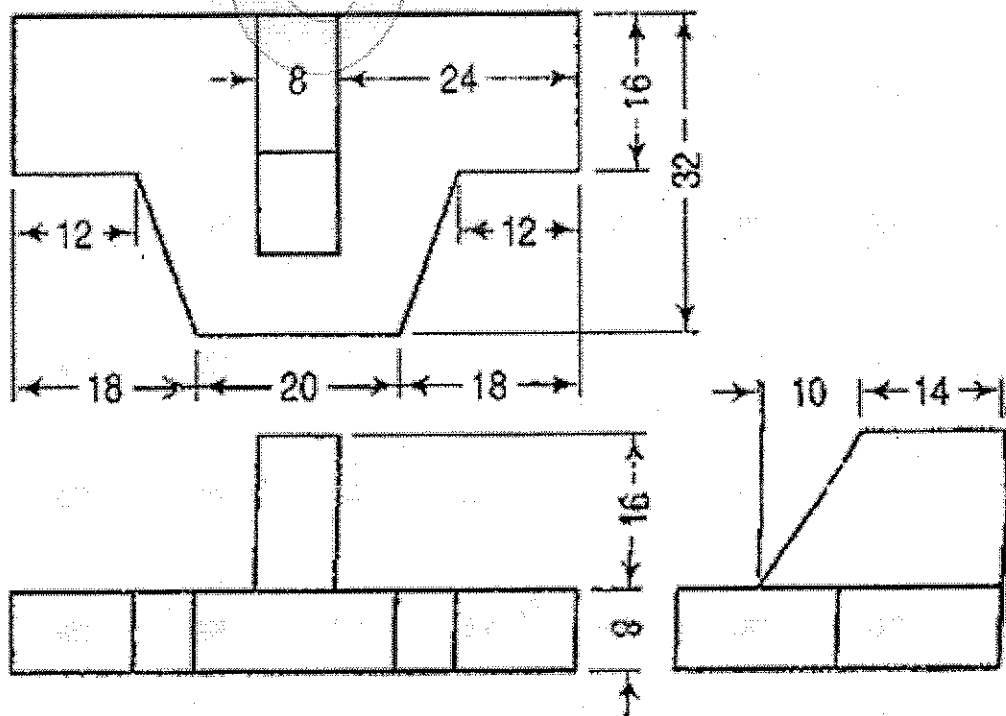

Figure: 1