

I B. Tech II Semester Supplementary Examinations, April/May - 2019
ENGINEERING DRAWING
(Com. to All Branches)

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions
All Questions carry **Equal** Marks

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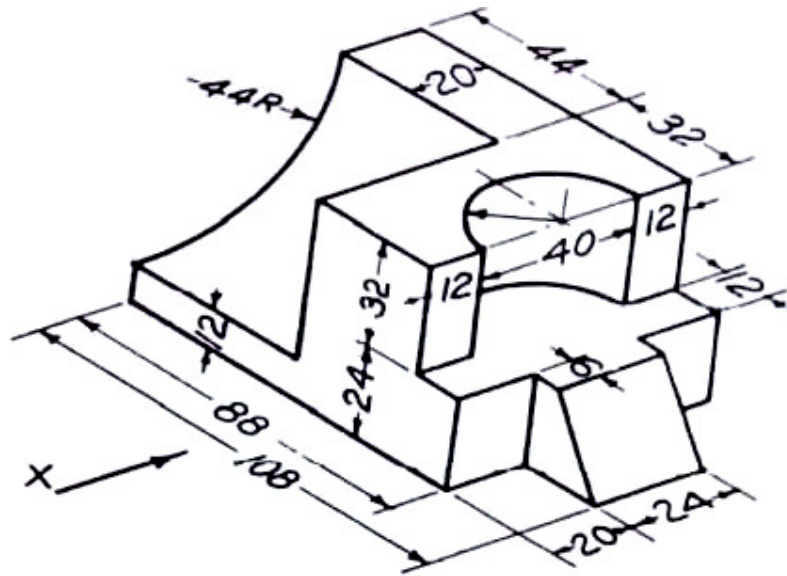
1. a) An ellipse has the major axis and minor axis in the ratio of 3:2. Draw the ellipse, when the major axis is 120. Draw a tangent and a normal at any point P on it. (8M)
- b) The actual length of 500m is represented by a line of 15cm on a drawing. Construct a vernier scale to read up to 600m. Mark on the scale a length of 549m. (7M)
2. a) A line CD of 60 mm long has its end C in HP and 12 mm behind VP. The line is inclined at  $45^{\circ}$  to HP and  $30^{\circ}$  to VP. Draw its projections. (8M)
- b) A line AB has its end A in HP and 40mm in front of VP. Its front view is inclined  $50^{\circ}$  to XY and has a length of 70mm. The other end B is in VP. Draw its projections. Also, find the true length and true inclinations of the line. (7M)
3. The end A of a line AB is in the HP and 25mm behind the VP. The end B is in the VP and 50mm above the HP. The distance between the end projectors is 75mm. Draw the projections of AB. (15M)
4. Draw the projections of a regular hexagon of 25 mm side, having one of its sides in the HP and inclined at  $60^{\circ}$  to the VP and its surface making an angle of  $45^{\circ}$  with the HP. (15M)
5. A cylinder of diameter 60 mm and axis 75 mm long, is having its axis inclined at  $45^{\circ}$  to HP. Draw its projections. (15M)
6. a) A square pyramid, base 25 mm side and axis 50 mm long has one of its triangular faces on HP. Draw the projections. (8M)
- b) Draw the isometric view of a cone, base 40mm diameter and axis 55mm long (7M)
  - (a) When its axis is vertical and
  - (b) When its axis is horizontal

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7. Draw (i) Front view (ii) Side view from the left (iii) Top view (All dimensions are in mm). (15M)



8. Draw the isometric view of the object whose orthographic projections are shown in figure. (All dimensions are in mm). (15M)

