Code: 15A03101b

## B.Tech I Year II Semester (R15) Supplementary Examinations December 2019 ENGINEERING DRAWING

(Common to IT and ME)
Time: 3 hours
Max. Marks: 70
(Answer all five units, $05 \times 14=70$ Marks)
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## UNIT - I

3 (a) Draw the projections of the following points:
(i) $\mathrm{A}, 25 \mathrm{~mm}$ above HP and 30 mm in front of VP.
(ii) B in both HP and VP.
(iii) C in VP and 35 mm below HP.
(iv) D in HP and 50 mm behind VP.
(v) E, 10 mm below HP and 20 mm behind VP.
(b) A point is situated in first quadrant. It is equidistant from the principal planes and its shortest distance from the point of intersection of HP, VP and auxiliary plane. Draw the projections of the point and determine its distance from the principal planes.

## OR

4 (a) Draw the projections for the left side and right side views of the following points whose positions are given by the following coordinates:
(i) $\mathrm{P}(+35,+15,+25) \mathrm{mm}$.
(ii) $\mathrm{Q}(-35,-15,+25) \mathrm{mm}$.
(iii) $R(-35,+15,-25) \mathrm{mm}$.
(b) A point Q is 20 mm below HP and lies in the third quadrant. It shortest distance from XY is 40 mm . Draw its projections.

## UNIT - III

Construct a hyperbola when the distance of the focus from the directrix is 75 mm and eccentricity is $3 / 2$.

OR
Draw a parabola with a parallelogram of sides 100 mm and axis 50 mm , given that the acute angle is $70^{\circ}$.

## UNIT - II

