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B.Tech I Year II Semester (R15) Regular & Supplementary Examinations May 2018

ENGINEERING DRAWING

(Common to ECE & EIE)

Time: 3 hours Max. Marks: 70

(Answer all five units, $05 \times 14 = 70 \text{ Marks}$)

UNIT – I

1 Construct a parabola when the distance between focus and the directrix is 40 mm. Draw tangent and normal at any point P on the curve.

OR

Draw an epi-cycloid generated by a rolling circle of 60 mm diameter for one complete revolution. The radius of the directing circle is 100 mm. Draw a tangent and a normal to the curve at 150 mm from the centre of the directing circle.

UNIT – II

A cube of 5cm sides represented a tank of 1000m³ volume. Find the R.F and construct a scale to measure up to 35 m and mark a distance of 27 m on it.

OR

A train is moving at the rate of 1.2 km per minute construct a scale with scale factor 1/25,000, showing minutes and seconds. Indicate on it, the distance moved by the train in 4 minutes and 27 seconds.

(UNIT – III)

The mid-point of a straight line AB is 60 mm above the H.P and 50 mm infront of V.P. The line measures 80 mm long and inclined at an angle of 30° to the H.P and 45° to the V.P. Draw its projections.

OR

A circle of 40 mm diameter is resting on H.P, on a point, with its surface inclined at 30° to H.P. Draw the projections of the circle, when the top view of the diameter, through the resting point, makes an angle of 45° with reference line.

UNIT – IV

A pentagonal prism of side of base 25 mm and axes 40 mm long is resting on H.P on a corner of its base. Draw the projections of the prism, when the base is inclined at 60° to H.P and the axis appears to be inclined at 30° to V.P.

OR

A cone of base 50 mm diameter and 60 mm long axes is resting on its base on H.P. It is cut by a section plane perpendicular to V.P and parallel to an extreme generator and passing through a point on the axis at a distance of 20 mm from the axis. Draw the development of the retained solid.

UNIT – V

9 Draw an isometric view of a cylinder, with a 50 mm base diameter and a 70 mm long axes. When axes is (i) vertical. (ii) Horizontal.

OR

- 10 Pictorial view of an object is shown in below figure. Using first angle projection draw its:
 - (a) Front view.
 - (b) JOP view.
 - (c) Side view.

