

Year/Semester: I/I
Subject: ENGINEERING DRAWING (EDRG 101)
Time: 1hr 30 min

Full Marks: 20

- Make necessary assumptions whenever required.
- 2 marks separated for the title box and borderline.

Set B

1. The top view of 75 mm long line PQ measures 50 mm. The end P is 15 mm above the H.P. and 50 mm in front of the V.P. The end Q is 20 mm in front of the V.P. and above the H.P. Draw the projections of PQ and determine its inclinations with the reference planes. [9]

OR

A pentagon ABCDE of side 30 mm has its side AB in the V.P. and inclined at 30° to the H.P. and the corner B is 15 mm above the H.P. and the corner D is 30 mm in front of the V.P. Draw the projections of the plane and find its inclination with the V.P. [9]

2. A hexagonal pyramid of base side 30 mm and axis 60 mm, has an edge of its base on the ground inclined at 45° to the V.P. and the axis is inclined at 30° to the H.P. Draw its projections. [9]

OR

A hexagonal prism of base side 30 mm and height 70 mm, is resting on its base on the H.P. with a side of the base perpendicular to the V.P. The prism has a cylindrical hole of diameter 40 mm, drilled centrally such that the axis of hole is perpendicular to the V.P. Draw the development of the lateral surface of the prism. [9]

