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Total No. of printed pages = 2

CE 181103

Roll No. of candidate | | | | | | | | | | |

2019

B.Tech. 2nd Semester (Group A) End-Term Examination

ENGINEERING GRAPHICS AND DESIGN

New Regulation (w.e.f. 2017-18)

New Regulation (w.e.f. 2018-19)

Full Marks – 70 Time – Four hours

The figures in the margin indicate full marks for the questions.

Answer Question No. 1 and any *four* from the rest.

1. (a) Write the following sentence in single stroke (7mm) "INDIA IS MY COUNTRY". (10)

   (b) On a map, the distance of 11 kilometres is shown by a 22 cm long line. Find the RF construct the vernier scale. Show the distance 2.57 km. (12)

2. Draw a parabola if the distance of the focus from the directrix is 60 mm. Show normal and a tangent on it. (12)

[Turn over

3. Draw the projection of point. (12)
   (a) a point 50 mm below the HP and 30 mm behind the VP.
   (b) a point 50 mm below the HP and 30 mm in front of the VP.
   (c) a point in the VP and 50 mm above the HP.

4. A straight line AB, 60 mm long, makes an angle 25° to the HP and 55° to the VP. The end A is in the VP and 20 mm above the HP. Draw the projections of the line AB. (12)

5. A regular hexagon of 30 mm side has a corner on the HP. The corner opposite to this corner is 25 mm above the HP. The top view of the diagonal through these corner is perpendicular to XY. Draw the projections of the plane and find its inclination with the VP. (12)

6. A hexagonal pyramid, base 25 mm side and axis 50 mm long, has an edge of its base on the ground. Its axis is inclined at 30° to the ground and parallel to the VP. Draw its projections. (12)

7. An object is represented by FV and LHSV as shown in fig. Obtain its isometric view about O. (12)

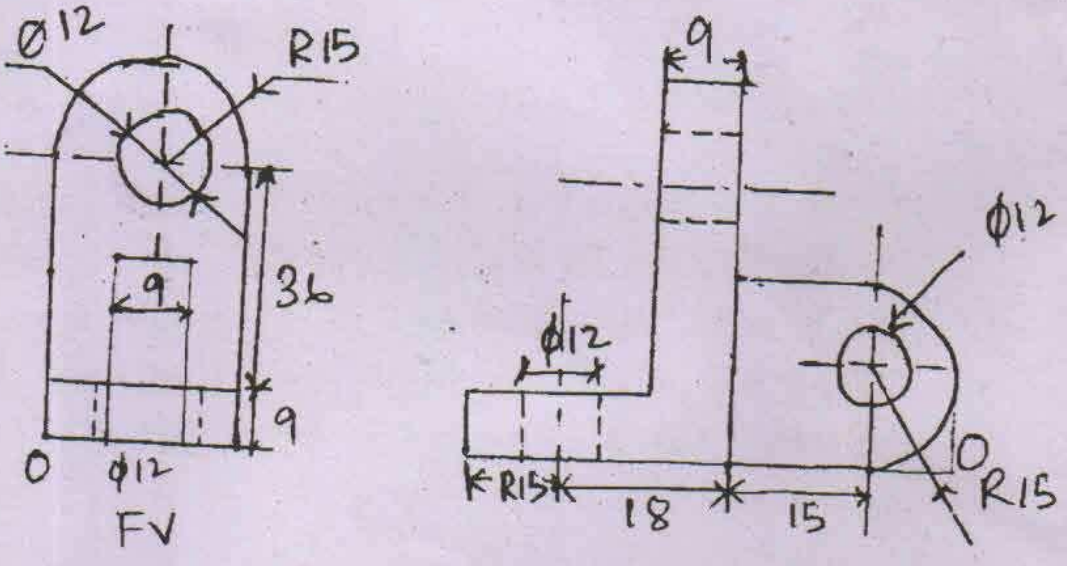

Fig.

All dimensions in mm