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Code: 4G513

B.Tech. I Year Supplementary Examinations June 2022

Engineering Drawing
(Common to EEE, ECE & CSE)

Max. Marks: 70

Time: 3 Hours

Answer any five full questions by choosing one question from each unit (5x14 = 70 Marks)

Marks

UNIT-I

1. a) To construct regular pentagon of given side 25mm by using Inscribe circle method
- b) Inscribe a regular heptagon in a circle having an 80mm diameter

OR

2. a) Draw a cycloid for one complete revolution of a circle having a 50mm diameter. Draw a tangent and normal to the curve at a point distant 35mm above the base line.

UNIT-II

3. a) A line AB is 30mm long and inclined at 30° to HP and parallel to VP. The end A of the line is 15mm above HP and 20mm in front of VP. Draw the projections of the line.

OR

4. a) A line AB of 100mm length is inclined at an angle of 30° to HP and 45° to VP. The point A is 15 above HP and 25 in front of VP. Draw the projections of the line.

UNIT-III

5. a) Draw the projections of a regular pentagon of 25mm side with its surface making angle of 45° to HP. One of the sides of the pentagon is parallel to HP and 15mm away from it.

OR

6. a) A thin rectangular plate of 60x40mm size has its shorter edge on HP and inclined at 30° to VP. Draw the projections of the plate when the top view is a square of 40mm side

UNIT-IV

7. a) Draw the projections of a cylinder of base 30mm diameter and axis 50mm long when it is resting on HP on one of its base.

OR

8. a) Draw the projections of a hexagonal prism of base 25mm side and axis 60mm long, when it is resting on one of its corners of the base to HP. The axis of the solid is inclined at 45° to HP

UNIT-V

9. Draw the isometric view of a pentagon of 50mm side, plane in vertical and horizontal

OR

10. Draw the front view, Top view and Side view of the following isometric view


