19MEE100 Engineering Drawing-CAD

Projection of Planes

Time: 100min (2.15 pm to 4:15 pm)

General Instructions

- Use AutoCAD software
- Draw all drawings
- Use an aligned dimension system

- Use 1:1 Scale
- Use proper line types
- All figures should be drawn inside the template

Components for Evaluation

Drawing Standards (20) Line Types - 01 Marks Lettering - 02 Marks Dimensioning - 02 Marks	First Set of Front & Top views (10) True shape with the orientation given in question (2.5)	Final set of Front and Top views (20) > Surface inclination - 02 Marks > final view - 03 Marks	Workbook (10)
Each Question Carries 5 Marks	Each Question Carries 2.5 Marks	Each Question Carries 5 Marks	10 Marks

1. A semi-circular plate of diameter 60 mm is resting on the point of its circumference on V.P. The edge is perpendicular to H.P., and the semi-circle plate makes an angle of 40^0 to the V.P. Draw the projections of it.

2. A triangular plate of side 50 mm is held on H.P. on one of its corners, and the opposite side is perpendicular to the V.P. The flat surface of the plate is inclined at 40^0 to the H.P. Draw the projections.

3. A thin rectangular lamina ABCD of dimensions 60 X 40 mm is resting on its shorter side in the H.P. such that its Top view is a square. Draw the projection of the lamina and find its inclination with the H.P.

4. A regular pentagonal plate 40 mm side is resting on one of its corners in V.P. The side opposite the corner is perpendicular to HP. The plate is inclined at 30^0 to the V.P. Draw the projection of the plate.