# DELHI TECHNOLOGICAL UNIVERSITY

## 1st Semester Practical Examination – 2009

## Engineering Drawing

**Time – 3 Hrs.** **Maximum Marks – 70**

**Note –**
**Question No. 7 ( Viva – voce ) is compulsory – Out of rest attempt any four questions.All questions carry equal marks. Assume missing data, if any suitably.**

**Q.1 A line 50 mm long makes angle of 30°°°°**

**with HP and lying in a plane, which makes anangle 45°°°°**

**with VP and is perpendicular to HP. It's end A is 10 mm above the HP and 20mm in front of VP. Draw the projections of AB and determine it's true inclination withthe VP. (14)**

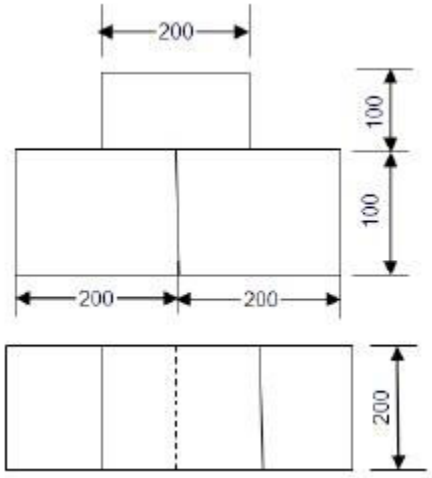
**Q.2 Draw the projections of a pentagonal plane, side 25 mm, resting in the H.P. On one of its edges. The plane of pentagon is inclined at 45 °°°° to the HP. (14)**

**Q.3 Draw the projections of a cylinder 40 mm diameter and axis 55 mm long, is resting ona point of base circle on H.P. with its axis inclined at 45 °°°° to H.P. and parallel to V.P.(14)**

**Q.4 A cube of 55 mm edge, is resting on one of it s faces on horizontal plane with an edgeof its base making an angle of 30 °°°° to the V.P. A section plane inclined at 60 °°°° to the HP.Cuts the cube and passing through a point 25 mm from the base along the axis. Drawthe apparent and the true section of the solid. (14)**

**Q.5 Develop the surface of a right circular cone of 50 mm base diameter and axis 60 mmlong. (14)**

**Q.6 Draw the isometric projection of solid from its two views given below: (14)Q.7 Viva – Voce (14)**




**Q.1 A line AB, 65 mm long makes angle of 45 °°°°**

**with HP and Its end A is 10 mm above theHP and 15 mm in front of VP. Draw the top view and front view of the line AB. (14)**

**Q.2 Draw**

**the projections of a rhombus having diagonals 100**

**mm and 40 mm long. Thebigger diagonal is inclined at 30**
**°°°°**
**to the HP. with one of the end point in H.P. andsmaller diagonal parallel to both planes (14)**

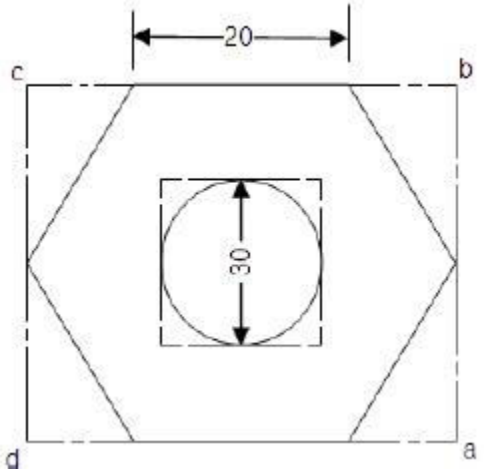
**Q.3 Draw the projections of a regular hexagonal prism, side of the base 25 mm and axis 45mm long, is resting on one of the corners of its base in such a way that the axis makean angle of 45**
**°°°°**
**with H.P. (14)**

**Q.4 A hexagonal pyramid of height 50 mm and bas e side 25 mm, is resting on its base onthe horizontal plane with an edge of the base inclined at 60**
**°°°°**
**to V.P. It is cut by acutting plane inclined at 60**
**°°°°**
**to H.P. and passes 30 mm above the base along the axis.Draw the front view, sectional top view and true shape of the cut surface of thepyramid. (14)**

**Q.5 Develop the surface of a pentagonal pyramid o f 25 mm side and axis 60 mm height(14)**

**Q.6 Draw**
**the isometric projection of solid from its top views given below ( Assume heightas 50 mm ): (14)**

**Q.7 Viva – Voce (14)**




**.Q.1 A line 50 mm long makes angle of 30 °°°°**

**with HP and lying in a plane, which makes anangle 45 °°°°**

**with VP and is perpendicular to HP. It's end A is 10 mm above the HP and 20mm in front of VP. Draw**

**the projections of AB and determine it's true inclination withthe VP. (14)**

**Q.2 Draw the projections of a pentagonal plane, side 25 mm, resting in the H.P. On one of its edges. The plane of pentagon is inclined at 45 °°°° to the HP. (14)**

**Q.3 Draw the projections of a regular pentagonal prism, side of the base 30 mm and 90mm long, is resting on one of the base edge on horizontal plane and face inclined 45 °°°° to V .P. (14)**

**Q.4 A hexagonal pyramid of height 65 mm and bas e side 25 mm, is resting on its base onthe horizontal plane with one of its base sides parallel to the V.P. It is cut by a cuttingplane inclined at 60 °°°° to H.P. and passes 40 mm above the base along the axis. Drawthe front view, sectional top view**

**and true shape of the cut surface of the pyramid.(14)**

**Q.5 Develop the surface of a hexagonal pyramid of 50 mm side and axis 60 mm height.(14)**

**Q.6 Draw the isometric projection of solid from its two views given below: (14)**

**Q.7 Viva – Voce (14)**