

# END TERM EXAMINATION

Mechanical Engineering Department  
DELHI TECHNOLOGY UNIVERSITY  
ME-119 ENGINEERING DRAWING

NOVEMBER-2015

Note: Question No. 7 is compulsory  
Attempt any four from the rest  
All questions carry equal marks.  
Assume missing data, if any

Maximum Time: 3 Hrs

Maximum Marks: 50

Ques 1. The front view and top view of a line AB measures 50mm and 65mm respectively. The point A is in the H.P. and 20mm in front of V.P., and the front view of the line is inclined at  $45^\circ$  to the reference line. Determine the true length of AB, true angles of inclinations with the H.P. and V.P. Also draw its traces? (10)

Ques2. A regular hexagon of 25mm side has a corner in H.P. Its surface is inclined at  $45^\circ$  to the H.P. and the top of the diagonal through the corner, which is in the H.P. makes an angle of  $60^\circ$  with the V.P. Draw its projections? (10)

Ques3. A pentagonal pyramid, base 25mm side and axis 50mm long has one of its triangular face in the V.P. and the edge of the base contained by that face makes an angle of  $30^\circ$  with the H.P. Draw its projections? (10)

Ques4. A Pentagonal pyramid base 25mm side, axis 60mm long, is resting on its base on the ground. It is cut by a horizontal plane at mid of its axis above the ground. Draw its sectional top view and front view? (10)

Ques5. A right circular cone of base diameter 40mm and axial height 60mm is resting on its base in the H.P. It is cut by a sectional plane, perpendicular to the V.P. and inclined at  $45^\circ$  to the H.P. which bisects its axis. Draw the development of the lateral surface of the cone? (10)

Ques6. A cylinder of 30mm diameter and 45mm length rests centrally on square block of 48mm side and 22mm thick? Draw full size isometric projection of the arrangement? (10)

Ques7. Viva -Voice (10)

