# 2008 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY 

## IV B.TECH II SEMESTER SUPPLEMENTARY EXAMINATIONS <br> ENGINEERING DRAWING

(ELECTRICAL \& ELECTRONIC ENGINEERING,ELECTRONIC \& COMPUTER ENGINEERING,)
APR/MAY 2008
TIME : 3 HR
MARK : 80

## Answer any FIVE Questions All Questions carry equal marks

1. Two straight lines OA and OB make an angle of 750 between them. P is a point 40 mm from OA and 50 mm from OB. Draw a hyperbola through P , with OA and OB as asympotes, marking at least ten points.
2. A circle of 35 mm diameter rolls on a horizontal line. Draw the curve traced out by a point R on the circumference for one half revolution of the circle. For the remaining half revolution, the circle rolls on the vertical line. The point R vertically above the center of the circle in the starting position.
3. (a) A point $P$ is 15 mm above the H.P. and 20 mm in front of the V.P. Another point $Q$ is 25 mm behind the V.P. and 40 mm below the H.P. Draw projections of $P$ and $Q$ keeping the distance between their projectors equal to 90 mm . Draw straight lines joining
i. their top views and
ii. their front views.
(b) A point 30 mm above xy line is the plan view of two points P and Q . the elevation of P is 45 mm above the H.P. while that of the point $Q$ is 35 mm below the H.P. Draw the projections of the points and state their position with reference to the principal planes and the quadrant in which they lie.
4. (a) A 100 mm long line is parallel to and 40 mm above the H.P. Its two ends are 25 mm and 50 mm in front of the V.P. respectively. Draw it projections and find its inclination with the V.P.
(b) A line $\mathrm{AB}, 50 \mathrm{~mm}$ long, has its end A in both the H.P. and the V.P. Its is included at 300 to the H.P and at 450 to the V.P. Draw its projections.
5. A regular hexagonal plane of 30 mm side, has a corner at 20 mm from V.P. and 50 mm from H.P. Its surface is inclined at 450 to V.P. and perpendicular to H.P. Draw the projections of the plane.
6. (a) Draw the projections of a pentagonal pyramid, base 30 mm edge and axis 50 mm long, having its base on the H.P. and an edge of the base parallel to the V.P. Also draw its side view.
(b) Draw the projections of a hexagonal pyramid, base 30 mm side and axis 60 mm long, having its base on the H.P. and one of the edges of the base inclined at 450 to the V.P.
(c) A square pyramid, base 40 mm side and axis 65 mm , long has its base in the V.P. One edge of the base is inclined at 300 to the H.P. and a corner contained by that edge is on the H.P. Draw its Projections.
7. Draw the isometric view of the block, two views of which
