# 2008 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY 

IV B.TECH II SEMESTER SUPPLEMENTARY EXAMINATIONS
ENGINEERING DRAWING
(ELECTRICAL \& ELECTRONIC ENGINEERING,ELECTRONIC \& COMPUTER ENGINEERING,)
APR/MAY 2008
TIME : 3 HR
MARK : 80

## Answer any FIVE Questions <br> All Questions carry equal marks

1. The vertex of a hyperbola is 65 mm from its focus. Draw the curve if the eccentricity is $3 / 2$. Draw a normal and a tangent at a point on the curve, 75 mm from the directrix.
2. Show by means of a drawing that when the diameter of the directing circle is twice that of the generating circle, the hypocycloid is a straight line. Take the diameter of the generating circle equal to 50 mm .
3. (a) A point A is 2.5 cm above the H.P. and 3 cm infront of the V.P. Draw its Projections.
(b) A point A is 2 cm below the H.P. and 4 cm behind the V.P. Draw its Projections.
(c) Two points A and B are in the H.P. The point A is 30 mm in front of the V.P., while B is behind the V.P. The distance between their projectors is 75 mm and the line joining their top views makes an angle of 450 with $x y$. Find the distance of the point B form the V.P.
4. A line $A B 120 \mathrm{~mm}$ long is inclined at 450 to the H.P. and 300 to the V.P. Its mid point $C$ is in V.P. and 20 mm above H.P. The end $A$ is in the third quadrant, and $B$ is in the first quadrant Draw the projections of the line.
5. (a) A regular pentagon of 25 mm side has one side on the ground. Its plane is inclined at 450 to the H.P. and perpendicular to the V.P. Draw its projections.
(b) Draw the projections of a circle of 5 cm diameter, having its plane vertical and inclined at 300 to the V.P. Its centre is 3 cm above the H.P. and 2 cm in front of the V.P.
6. (a) Draw the projections of a hexagonal prism of base 25 mm and axis 60 mm long, when it is resting on one of its corners of the base on H.P. The axis of the solid is inclined at 450 to H.P.
(b) Draw the projections of a pentagonal prism of base 25 mm side and axis 50 mm long, when it is resting on one of its rectangular faces on H.P., the axis of the solid is inclined at 450 to V.P.
7. Draw the isometric view of a Door-Steps having three steps of 22 cm tread and 15 cm rise. The steps measure 75 cm widthwise
8. Draw the following views of the block. All dimensions are in mm
(a) Front View.
(b) Top view
(c) Both side views.
