1016   *Your Roll No.* ....

B.Sc. (Hons.) / III   C

ELECTRONIC SCIENCE – Paper 3.2(XVI)

(Engineering Drawing)

Time: 3 Hours   *Maximum Marks: 38*

*(Write your Roll No. on the top immediately
on receipt of this question paper.)*

Attempt **five** *questions in all, including
Question No.* 1 *which is compulsory.*

1. (a) Write single stroke vertical capital letters.

   SEMICONDUCTOR DEVICES   (3)

   (b) Construct a diagonal scale of 1:50 to show metres.
   decimetres and centimetres and long enough to
   measure upto 6 metres. Indicate a distance of
   4.54 metres on it.   (7)

2. (a) Draw a vernier scale of R.F. = $\frac{1}{25}$ to read
   centimetres. It should be long enough to measure

upto 4 metres. Show lengths representing 2.39 m and 0.91 m. (3)

(b) Construct an ellipse using concentric circle method. Given length of major axis = 100 mm and minor axis = 60 mm. (4)

3. Construct a cycloidal curve, the diameter of the generating circle is 50 mm. (7)

4. (a) A line AB, 80 mm long has its end A 2 cm above H.P. and 3 cm in front of V.P. It is inclined at an angle of 45° with V.P. and is parallel to H.P. Draw its projections. (3)

(b) Draw the projections of a square ABCD of 40 mm side. It is inclined at an angle of 45° with V.P. and perpendicular to H.P. (4)

5. A hexagonal pyramid, base 25 mm side and axis 50 mm long, has an edge of its base on the ground. Its axis is inclined at 30° to the ground and parallel to the V.P. Draw its projections. (7)

6. Draw the isometric view of the frustum of the cone shown below (7)
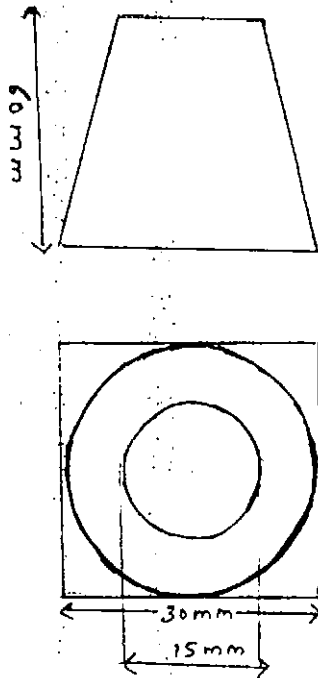
7. Draw the (i) Front view (ii) Top view & (iii) side view of the fig given below. (7)