

**Diploma in Civil Engineering / Diploma
in Electrical & Mechanical Engineering**

Term-End Examination

June, 2011

BET-016 : ENGINEERING DRAWING

Time : 2 hours

Maximum Marks : 70

Note : Question No. 1 and 2 are compulsory and are to be attempted on Answer Script and others on Drawing Sheet. Answer any two questions from the remaining four questions.

Answer the following questions in brief. **7x2=14**

- (a) The trimmed size of a drawing sheet of size A_1 and A_3 are _____ and _____ in mm.
- (b) Define Representative Factor (R.F).
- (c) By line diagram indicate any four 'types of solids' which are commonly used in Engineering Drawing.
- (d) Define Ellipse.
- (e) Define two conic sections except ellipse. Write the names of sections.
- (f) What are the different positions which a point can take with respect to the Reference planes. (HP and VP) ?
- (g) Differentiate between Isometric view and Isometric projections.

2. (a) Draw the projections of the following points. 4
- (i) Point 'A' is 30 mm below HP and 35 mm behind VP.
- (ii) Point 'B' is 40 mm behind VP and 35 mm above HP.
- (b) Construct an Isometric Scale to read upto 70 mm. 3
- (c) Construct a plain scale of R.F = $\frac{1}{6250}$ to 7
read upto 10 km. Show on the scale a length of 570 km.
3. A line AB 65 mm long has its End 'A' in the HP 21
and 20 mm in front of VP. The line is inclined at
30° to the HP and 45° with VP. Draw its
projections.
4. Construct a parabola when the distance of focus 21
from the directrix is 50 mm.
5. Draw three views of a regular pentagon of 40 mm 21
sides, having one of its side parallel to HP and the
surface of the pentagon is inclined at 30° to HP
and perpendicular to VP.

6. Two Views of a Hexagonal pyramid are given 21
below. Draw its Isometric view.

