

02502

**Diploma in Civil Engineering / Diploma  
in Electrical & Mechanical Engineering  
DCLEVI/DMEVI/DELVI/DECVI/DCSVI/  
ACCLEVI/ACMEVI/ACELVI/ACECVI/ACCSVI**

**Term-End Examination  
December, 2011**

**BET-016 : ENGINEERING DRAWING**

*Time : 2 hours*

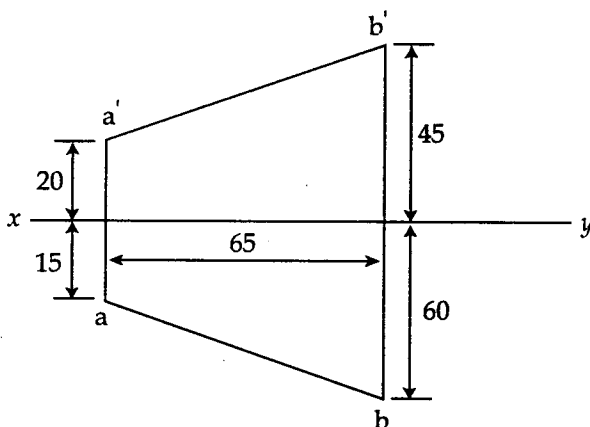
*Maximum Marks : 70*

**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.*

1. Answer the following questions in brief. **7x2=14**
- (a) Name any four types of lines and write their general applications in Engineering Drawing.
  - (b) What is the difference between first angle projection and third angle projection ?
  - (c) Write down the names of 'Elements' used in dimensioning process.
  - (d) Write the formula for calculation of subtended angle ' $\theta$ ' in the development of cone.
  - (e) Make a list of different types of planes with simple sketches.

- (f) What is the difference between plain scale and a diagonal scale ?
- (g) Define Eccentricity. What is the value for a parabola ?

2. (a) Divide a line of 80 mm length into Seven Equal Parts. 4
- (b) As per the given figure, find out the value of true length of the line AB. 7



- (c) With the help of a sketch, show parallel type of dimensioning arrangement. 3
3. A regular hexagon of 25 mm side is resting on one of its corners in the HP. The plane is inclined at an angle of  $45^\circ$  to the HP and perpendicular to VP. Draw its projections. (Three views) 21

4. A cone of base diameter 50 mm and axis 70 mm long is lying on ground on one of its generators with axis parallel to VP. Draw its Top and Front View. 21
5. A Hexagonal pyramid of base side 30 mm and axis 60 mm long has its base on HP with its Edge parallel VP. A section plane inclined at  $45^\circ$  to HP cuts the pyramid at a distance of 25 mm from the apex on the axis. Draw its front view and sectional top view and true shape of the section. 21
6. Draw the top view (plan), front view (Elevation) and side view for the block shown. 21

