



C14-A/AEI/BM/CHST/C/CM/EC/EE/CH/CHPP/CHPC/  
CHOT/PET/M/RAC/MET/MNG/IT/TT/PCT-107

**4005**

**BOARD DIPLOMA EXAMINATION, (C-14)**

**OCT/NOV—2017**

**FIRST YEAR (COMMON) EXAMINATION**

**ENGINEERING DRAWING**

*Time : 3 hours ]*

*[ Total Marks : 60*

**PART—A**

5×4=20

**Instructions :** (1) Answer **all** questions.

(2) Each question carries **five** marks.

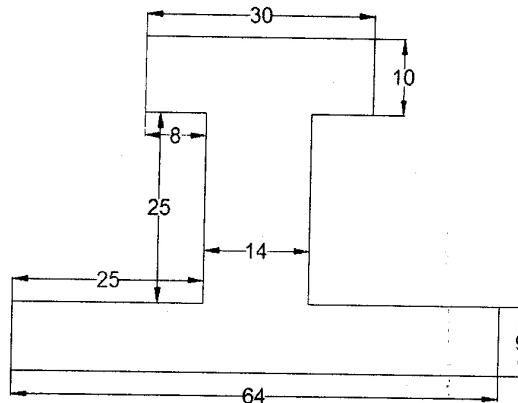
(3) Take suitable scale wherever required.

(4) All dimensions are in mm.

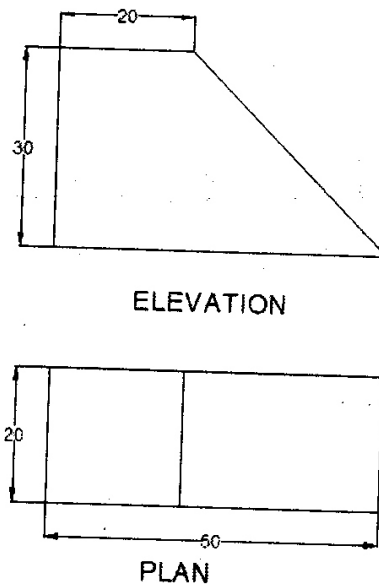
**1.** Write the following in single-stroke vertical letters of 10 mm size :

“GEOGRAPHICAL INFORMATION SYSTEM”

**2.** Redraw the following figure and dimension it by aligned system :



- \* 3. Construct a regular hexagon of side 30 mm by general method.
4. Draw the auxiliary view for the inclined surface of the object whose orthographic views are given below :



**PART—B**

10×4=40

**Instructions :** (1) Answer *any four* questions.

(2) Each question carries **ten** marks.

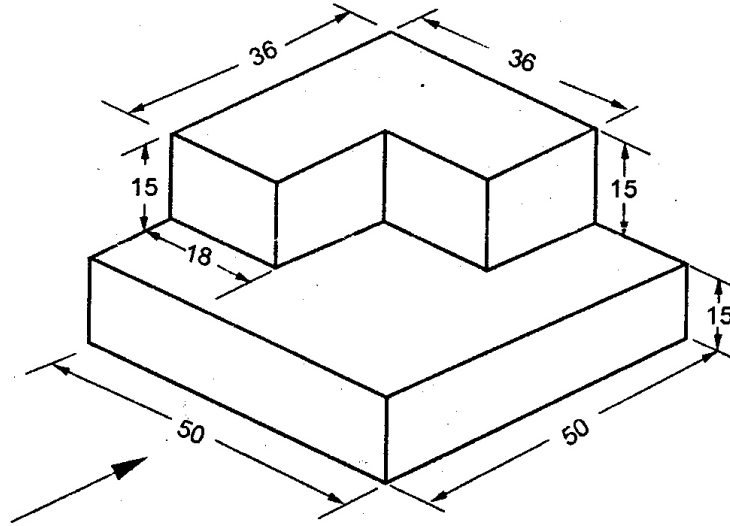
(3) All dimensions are in mm.

5. Construct an ellipse by concentric circles method with major axis 90 mm and minor axis 60 mm.

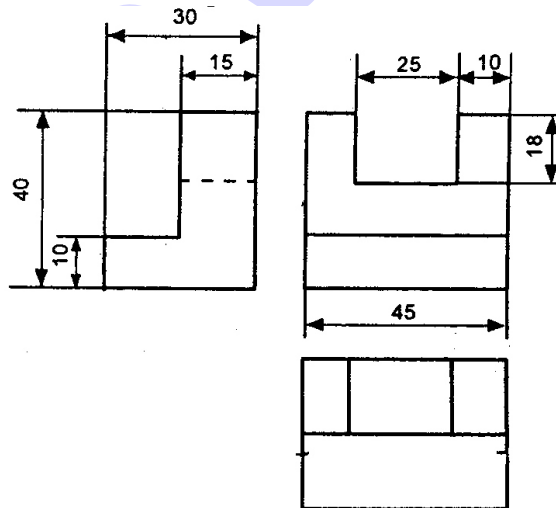
6. Draw the projection of a regular hexagon of 50 mm side, having one of its sides in the HP and perpendicular to the VP and its surface making an angle of 45° to the HP.

\* 7. A cone of diameter 50 mm and height 60 mm is resting on the ground on its base. It is cut by a section plane perpendicular to VP, inclined at 45° to HP and cutting the axis at a point 40 mm from bottom. Draw the front view, sectional top view and true shape of the section.

- \* 8. Draw the front view, top view and side view of the object shown below :



9. Draw the isometric view of the ribbed angle plate, shown below. All dimensions are in mm and the views are given in first angle :



- \* 10. A hexagonal prism of base side 30 mm and height 65 mm is resting on the ground with one of its base edges parallel to VP and is cut by a plane making  $60^\circ$  to HP and passing through the axis at a height of 40 mm from base. Develop the lateral surface of the prism when its truncated portion is removed.

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