

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

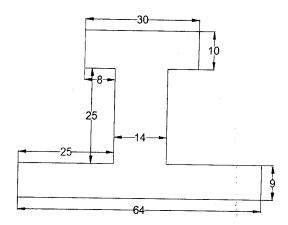
PART—A

 $5 \times 4 = 20$

- **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:

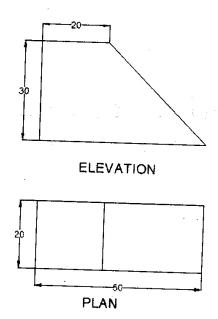
"GEOGRAPHICAL INFORMATION SYSTEM"

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



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- **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:



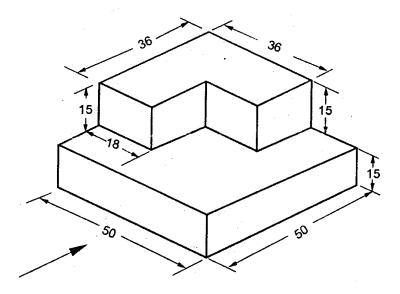
PART—B

 $10 \times 4 = 40$

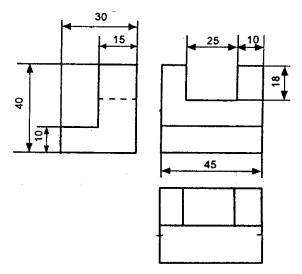
- **Instructions**: (1) Answer any **four** questions.
 - (2) Each question carries **ten** marks.
 - (3) All dimensions are in mm.
 - **5.** Construct an ellipse by concentric circles method with major axis 90 mm and minor axis 60 mm.
 - **6.** Draw the projection of a regular hexagon of 50 mm side, 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.

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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° 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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