## 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 <br> FIRST YEAR (COMMON) EXAMINATION <br> ENGINEERING DRAWING

Time : 3 hours ]
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 $45^{\circ}$ 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 $45^{\circ}$ 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 $60^{\circ}$ 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.

