## 7031

BOARD DIPLOMA EXAMINATION, (C-20)
SEPTEMBER/OCTOBER-2021
DECE - FIRST YEAR 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.

1. Write the following in single stroke capital vertical lettering of size 12 mm .
"SEMESTER PRODUCTION DRAWING"
2. Redraw the following figure to the full scale by correcting the errors in dimensioning as per SP-46:1988:

3. Draw an inte*nal tangent to two unequal circles of radii 25 mm and 30 mm . The distance between the centers is 80 mm .
4. For the T-section views are shown below, draw the auxiliary view for the inclined surface :


PART—B

Instructions: (1) Answer any four questions.
(2) Each question carries ten marks.
5. Draw the involute on an equilateral triangle of side 30 mm .
6. A pentagonal pyramid of base 30 mm and axis 60 mm long has its apex on the VP and the axis perpendicular to VP. A corner of the base is resting on the ground and the side of the base contained by the corner is inclined at $30^{\circ}$ to the ground. Draw its projections.
7. A cone of base diameter 40 mm and axis 60 mm is resting on HP with its base and axis 30 mm in front of VP. A section plane cuts it at a distance of 25 mm from apex and parallel to its base. Draw its sectional top view and front view.
8. Draw the front view, top view and right-side view of the following object in first-angle projection :

9. Draw the iso*netric view of the object whose orthographic views are given below :

10. A hexagonal prism of base edge 25 mm and height 60 mm whose rectangular face is parallel to VP. It is cut by an oblique plane at $45^{\circ}$ inclined to HP and passing through centre of the axis. Draw the development of the lateral surface of the truncated hexagonal prism.

## $\star \star \star$

