7038

BOARD DIPLOMA EXAMINATION, (C-20)

JUNE/JULY—2022

DEEE – FIRST YEAR (COMMON) EXAMINATION

ENGINEERING DRAWING

Time : 3 hours]   [*Total Marks* : 60

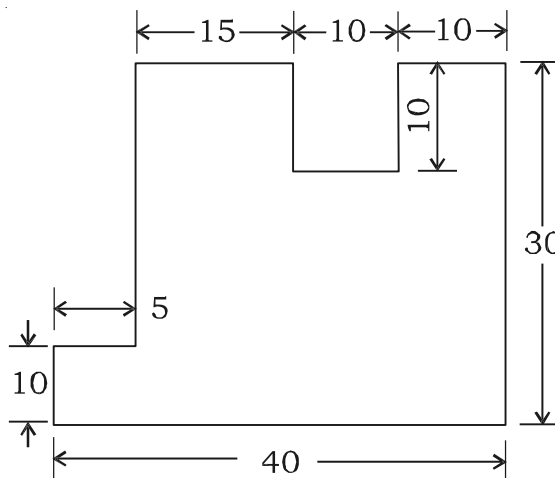## PART—A   5×4=20

Instructions :   (1) Answer all questions.

(2) Each question carries five marks.

(3) All dimensions are in mm.

1. Write the following using single-stroke capital inclined letters of 14mm size :

"DEPARTMENT OF AUTOMOBILE ENGINEERING"

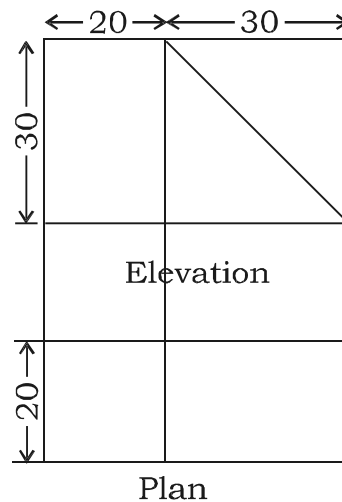2. Redraw the following figure in progressive dimensioning :

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3. Divide 105 mm length line into seven equal parts.

4. Draw the auxiliary view of the inclined surface given below.

Elevation

Plan

PART—B   10×4=40
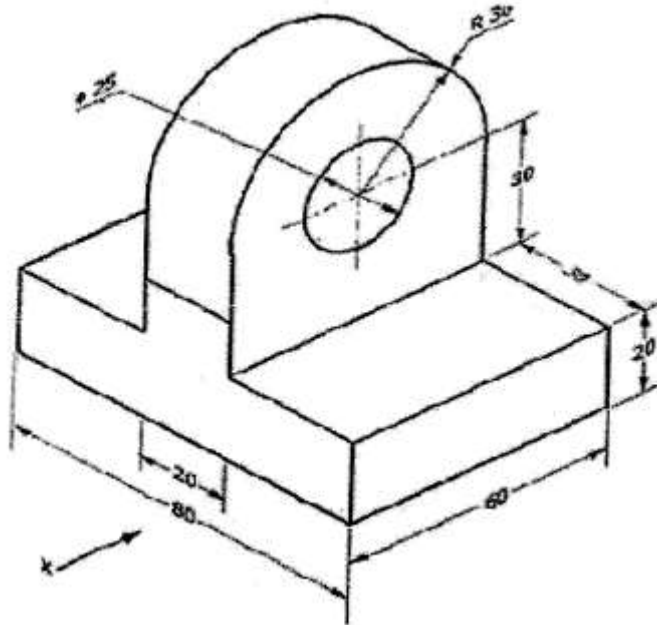
Instructions :   (1) Answer *any* four questions.

              (2) Each question carries ten marks.

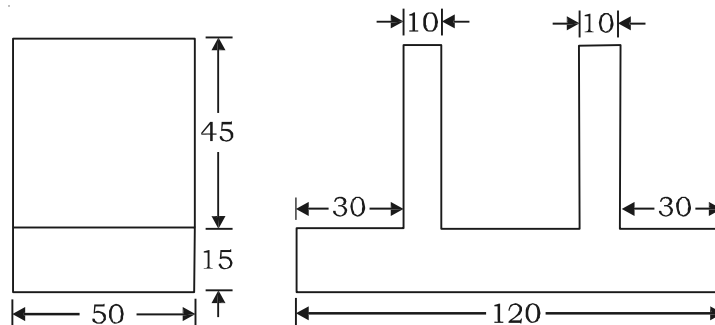   (3) All dimensions are in mm.

5. Draw an involute on a square of side 30 mm.

6. Draw the projections of a regular hexagon of 30 mm side, having one of its sides in the HP and inclined at 60° to the VP and its surface makes   an   angle   of   45°   with   HP.

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7. An isometric view of an object is given below. Draw its front view, top view and right side view.

8. A cylinder of base diameter 30mm and height 60 mm rests on its base on HP. A plane perpendicular to VP and inclined at 30° to HP cuts it through a point 30mm from the base on the axis. Draw the front view, sectional top view and true shape of the section.

9. Draw the isometric view from the orthographic views given below :

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10. A hexagonal prism of base side 25 mm and height 60 mm is standing vertically on HP with one of its vertical faces parallel to VP. It is cut by a plane which is inclined at 45° to HP and passing though the left corner of the prism. Develop the lateral surface of the truncated prism.

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