



C09-CHPP-107/C09-EE-107

**3038**

**BOARD DIPLOMA EXAMINATION, (C-09)**

**OCT/NOV—2013**

**DEEE—FIRST YEAR EXAMINATION**

**ENGINEERING DRAWING**

*Time : 3 hours ]*

*[ Total Marks : 60*

**PART—A**

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

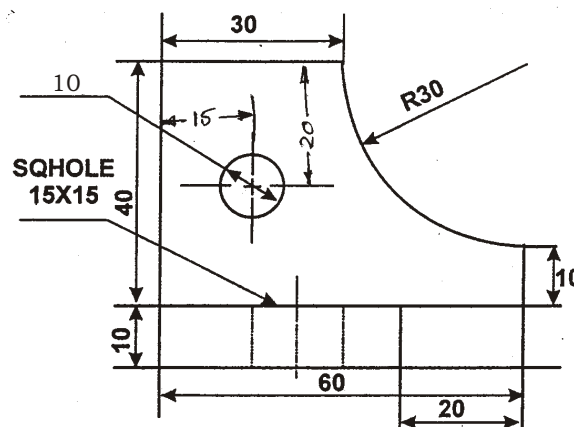
(2) Each question carries **five** marks.

(3) All dimensions are in mm.

**1.** Print the following with 10 mm size upright capital single-stroke letters :

“DRAWING IS THE LANGUAGE OF ENGINEERS”

**2.** Redraw the Fig. 1 and dimension it properly (unidirectional system) as per SP-46-1988 :



3. Draw the front view of the component as shown in Fig. 2 in the direction of X :

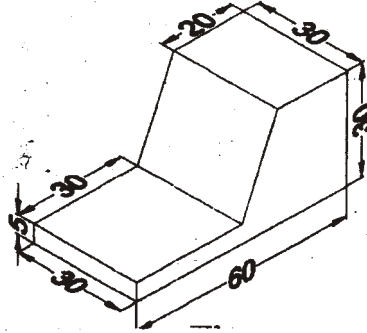


Fig. 2

4. Draw the auxiliary view of the sloping surface of the object as shown in Fig. 3.

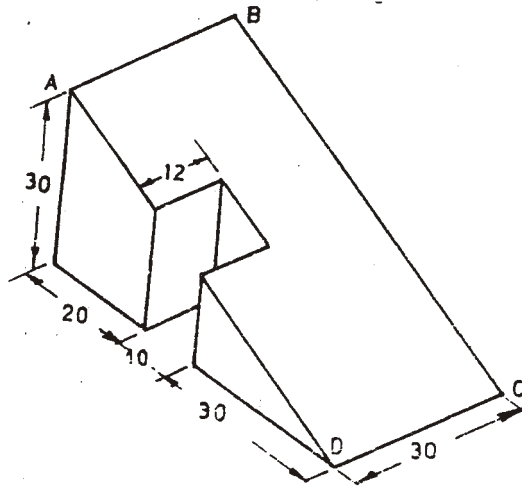


Fig.3

**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 involute to a circle of radius 20 mm.
6. A hexagonal pyramid side of base 30 mm and height 60 mm rests with its base on HP such that one of the edges of the base is parallel to and 10 mm in front of VP. Draw its projections.

7. A cylinder of base diameter 40 mm and height 60 mm rests on its base on HP. A plane perpendicular to VP and inclined at  $30^\circ$  to HP cuts it through a point 30 mm from base on the axis. Draw the front view, top view and true shape of the section.
8. Draw the front view, top view and side view of the block shown in Fig. 4 viewing it in the directions of X, Y, Z respectively :

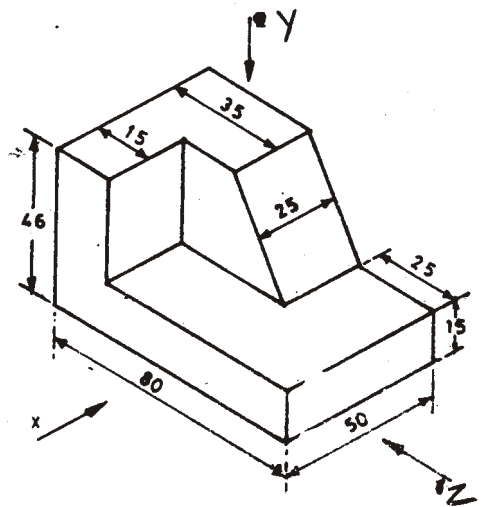


Fig. 4

9. Draw the isometric view of the steps from orthographic projections as shown in Fig. 5 :

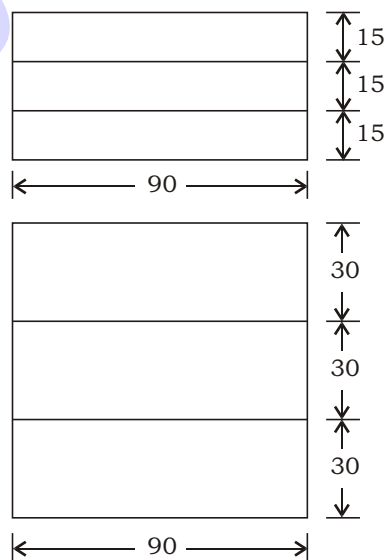


Fig. 5

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- 10.** A cylinder of base 40 mm and height 50 mm is standing on its base on HP. A cutting plane inclined at  $45^\circ$  to the axis of the cylinder passes through the left extreme point of the base. Develop the lateral surface of the truncated cylinder.

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