



C09-CHPC-107/C09-EC-107

3032

BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV—2013

DECE—FIRST YEAR EXAMINATION

ENGINEERING DRAWING

Time : 3 hours ]

[ Total Marks : 60

**PART—A**

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

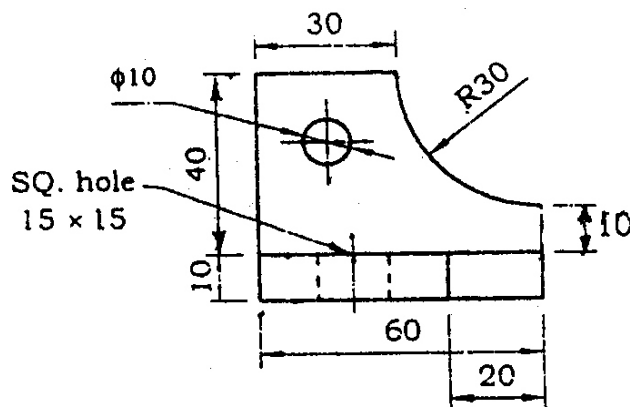
(2) Each question carries **five** marks.

(3) Drawing should be neat and clear with the necessary dimensions. All dimensions given in mm.

1. Print the following in single-stroke capital upright letters specified in SP-46 : 1988 :

“DRAWING IS UNIVERSAL LANGUAGE.”

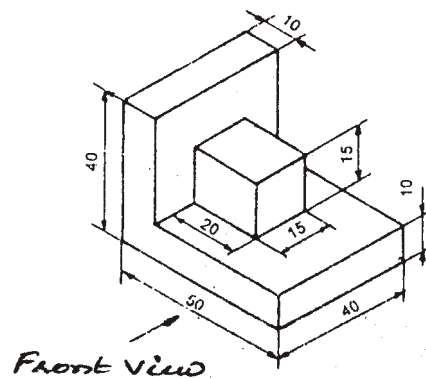
2. Read the following figure and redraw it to full-scale dimension as per SP-46 : 1988 :



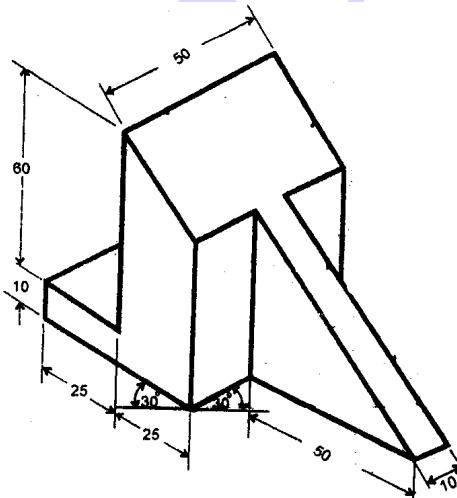
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3. Draw the front view of the object given in the figure in the direction shown in the figure :



4. Draw the auxiliary view of the following sloping surface as shown in the figure :



**PART—B**

**Instructions** : (1) Answer *any four* questions.

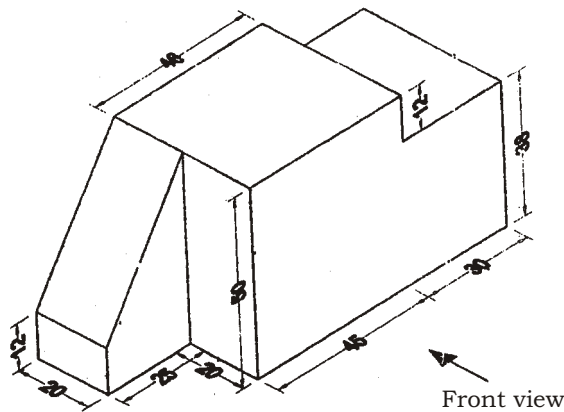
(2) Each question carries **ten** marks.

(3) Drawing should be neat and clear with the necessary dimensions. All dimensions given in mm.

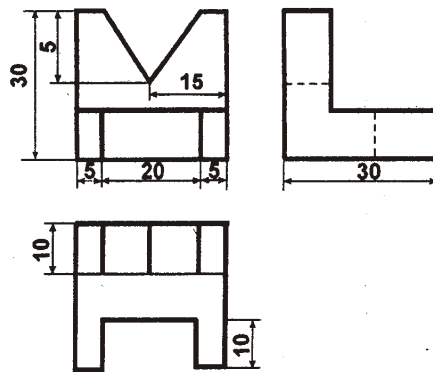
5. Inscribe a regular hexagon in a circle of radius of 25 mm.

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6. A line  $AB$  60 mm long is parallel to  $VP$  and inclined at an angle of  $30^\circ$  to  $HP$ . The end  $A$  is 20 mm above  $HP$  and 300 mm in front of  $VP$ . Draw its projections.
7. Draw the front view, top view and right side view as shown in the figure :



8. A square prism with side of base 50 mm and axis 50 mm long rests with its base on  $HP$  and one of the faces inclined at  $30^\circ$  to  $VP$ . It is cut by a section plane at  $45^\circ$  to  $HP$  and perpendicular to  $VP$  and passing through a point on the axis at 15 mm from its top base. Draw the projections of the prism and obtain the true shape of the section.
9. Draw the isometric view of the object whose orthographic views are given below :



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- 10.** A hexagonal pyramid of base side 25 mm and axis 65 mm long is resting on its base on HP having one of its base sides parallel to VP. It is cut by a section plane which is perpendicular to VP, inclined at  $45^\circ$  to HP and passing through the midpoint of axis. Draw the surface development of the bottom portion of truncated pyramid.

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