



C-14-CHPC/EC/PET-107

4037

BOARD DIPLOMA EXAMINATION, (C-14)

APRIL/MAY—2015

DECE—FIRST YEAR EXAMINATION

ENGINEERING DRAWING

Time : 3 hours ]

[ Total Marks : 60

PART—A

5×4=20

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

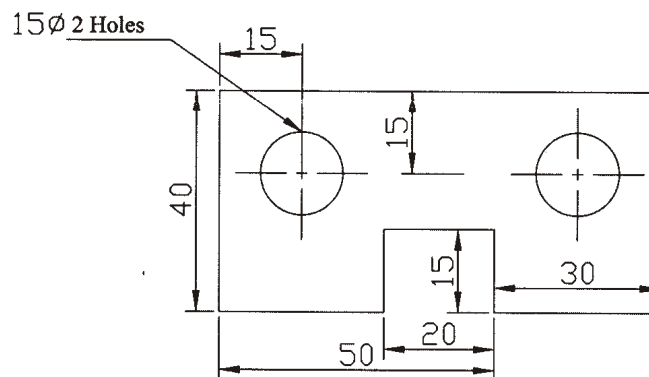
(2) Each question carries **five** marks.

(3) All dimensions are in mm.

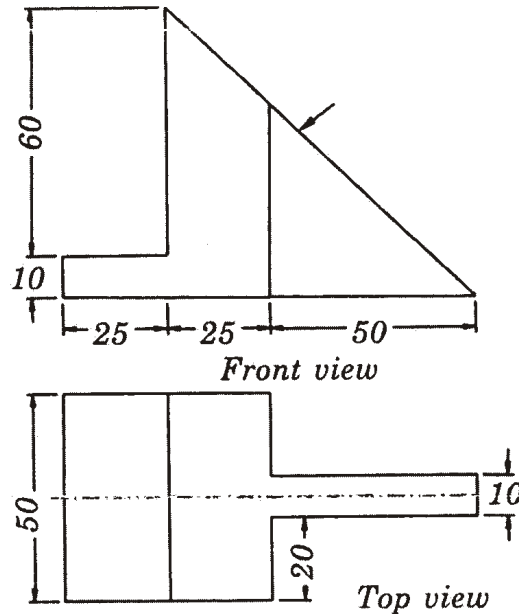
1. Print the following in single-stroke vertical capital lettering of 12 mm size as per SP:46-1988 :

“SKILL DEVELOPMENT CENTER”

2. Redraw the following figure to full size scale and dimension it according to SP:46-1988 :



3. Draw a pentagon of side 30 mm by semicircle method.
4. Draw the auxiliary view of inclined portion of the object shown in the figure below :



**PART—B**

10×4=40

- Instructions :** (1) Answer any **four** questions.  
 (2) Each question carries **ten** marks.  
 (3) All dimensions are in mm.

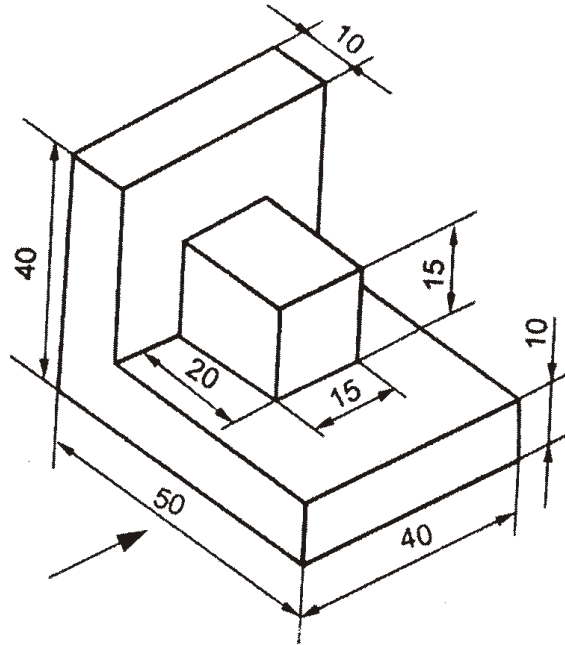
5. Construct an ellipse by concentric circles method with the following information :

Length of major axis—80 mm

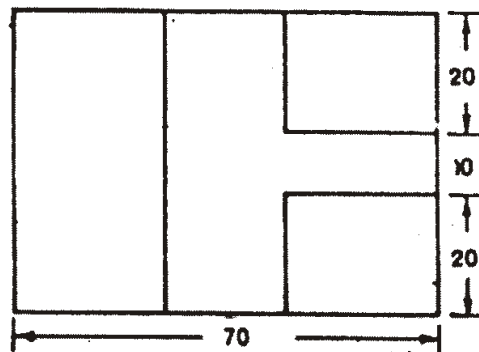
Length of minor axis—60 mm

6. A line of length 70 mm is parallel and 20 mm in front of VP. It is also inclined at  $45^\circ$  to HP and one end is on it. Draw its projections.
7. A right circular cylinder of diameter 50 mm and height 70 mm rests on its base such that its axis is inclined at  $45^\circ$  to HP and parallel to VP. A cutting plane parallel to HP and perpendicular to VP cuts the axis at a distance of 40 mm from the bottom. Draw the Front View and Sectional Top View.

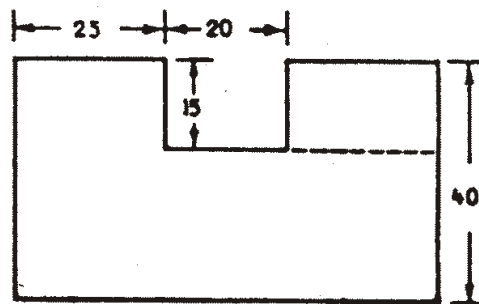
8. Draw the <sup>\*</sup>Front View, Top View and Right Side View of the object shown in the figure below :



9. Draw the Isometric view of the block whose orthographic views are given in third angle projection :



Top view



Front view

10. A hexagonal prism of base 20 mm and height 50 mm is standing vertically on ground with one of its base edges parallel to VP. It is cut by a sectional plane, inclined at  $45^\circ$  to HP, perpendicular to VP and passing through one of the top corners of the prism. Draw the development of lateral part of the cut prism.

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