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

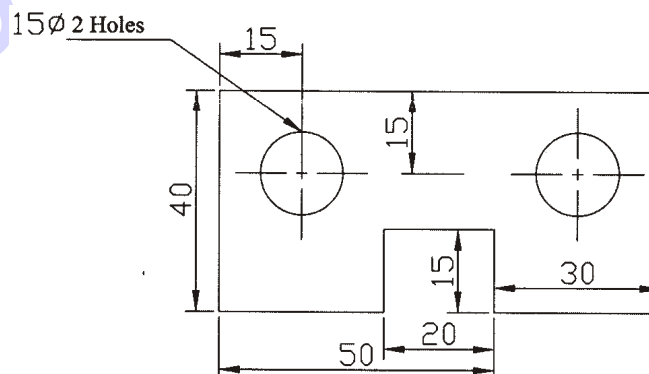**PART—A**   5×4=20

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

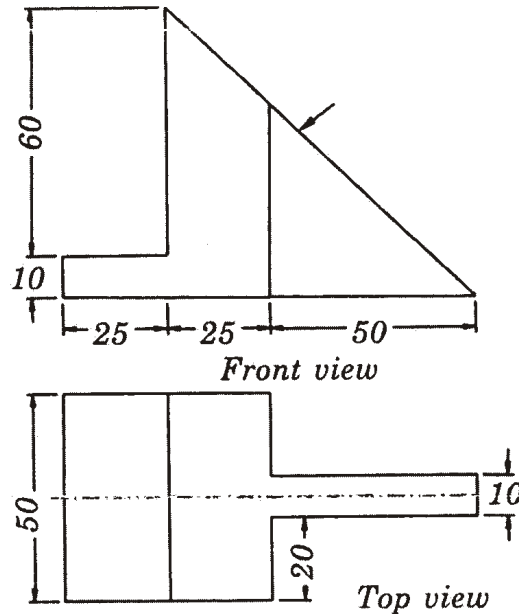(2) Each question carries **five** marks.

(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 :

Front view

Top view

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 :
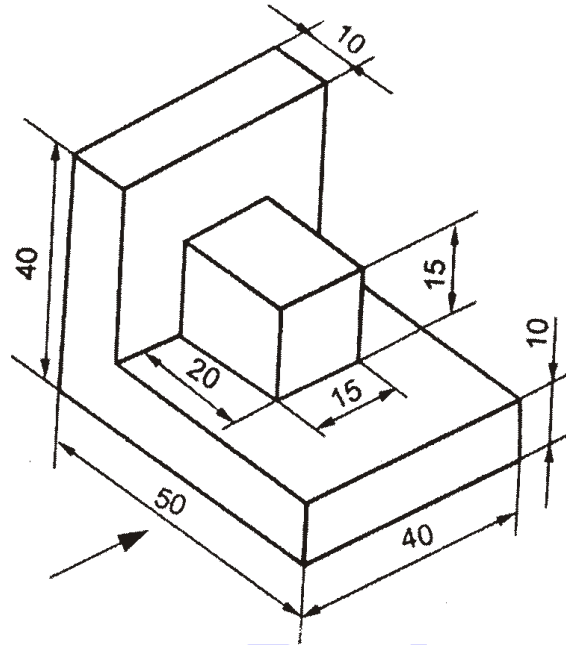
Length of major axis—80 mm
Length of minor axis—60 mm

6. A line of length 70 mm is parallel and 20 mm in front of VP. It is also inclined at 45° to HP and one end is on it. Draw its projections.
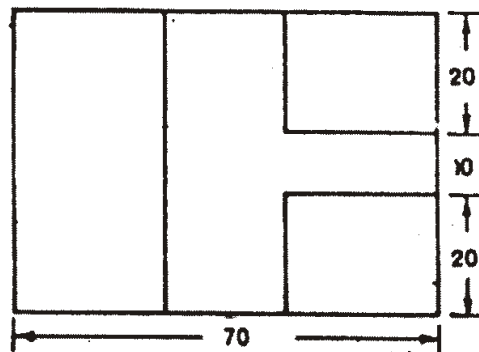
7. A right circular cylinder of diameter 50 mm and height 70 mm rests on its base such that its axis is inclined at 45° to HP and parallel to VP. A cutting plane parallel to HP and perpendicular to VP cuts the axis at a distance of 40 mm from the bottom. Draw the Front View and Sectional Top View.
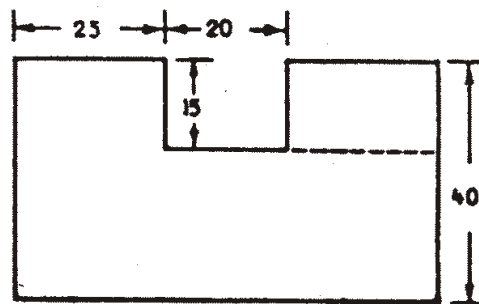
8. Draw the Front View, Top View and Right Side View of the object shown in the figure below :

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° 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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