**C09–A–107/C09–AEI–107/C09–C–107/
C09–CM–107/C09–CH–107/C09–CHST–107/C09–EC–107/
C09–EE–107/C09–FW–107/C09–IT–107/C09–MET–107/
C09–M–107/C09–MNG–107/C09–PKG–107/C09–TT–107**

3005

BOARD DIPLOMA EXAMINATION, (C–09)
MARCH/APRIL—2018
FIRST YEAR (COMMON) EXAMINATION

ENGINEERING DRAWING

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

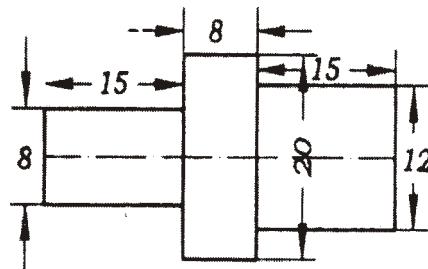**PART—A**   5×4=20

Instructions : (1) Answer **all** questions.
(2) Each question carries **five** marks.
(3) Take suitable scale wherever required.
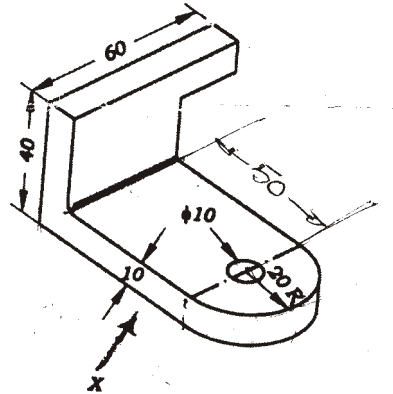(4) Drawing should be neat and clear with necessary dimensions. All dimensions are in mm.

1. Write the following in single-stroke inclined letters of size 12 mm as per SP : 46–1988 :

DRAWING IS THE LANGUAGE OF ENGINEERS

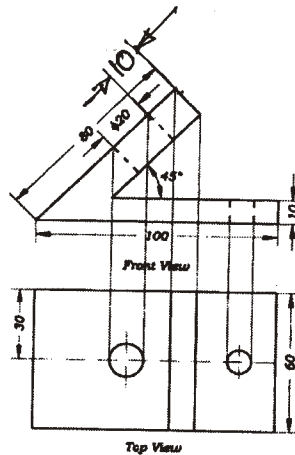**2.** Redraw the following figure and dimension as per SP : 46–1988 :

3. Draw front view from *X*-direction and top view for the following pictorial view :

4. Draw the auxiliary ⟨...⟩ e for the following view given below :

**PART—B**   10×4=40

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

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

(3) Take suitable scale wherever required.

(4) Drawing should be neat and clear with necessary dimensions. All dimensions are in mm.

5. The foci of an ellipse are 90 mm apart and minor axis is 60 mm. Draw an ellipse by concentric circles method and determine the length of the major axis.

6. A hexagonal prism with 25 mm side of base and 60 mm long is resting on when of its edges in HP. Draw the projections of the prism if its axis is parallel to VP and inclined at 45° to HP.
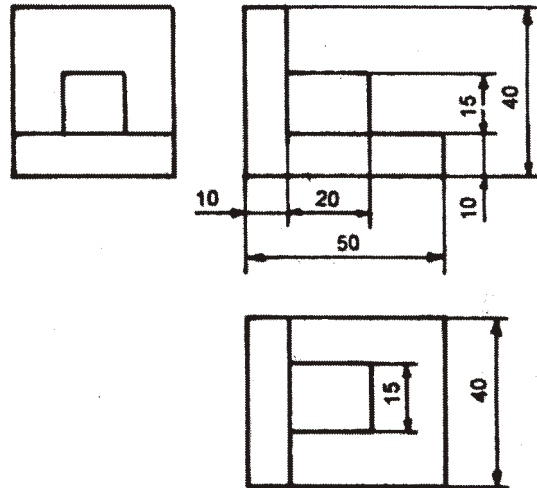
7. Draw front view from *X*-direction, right side view and top view for the following figure 1st angle projection :
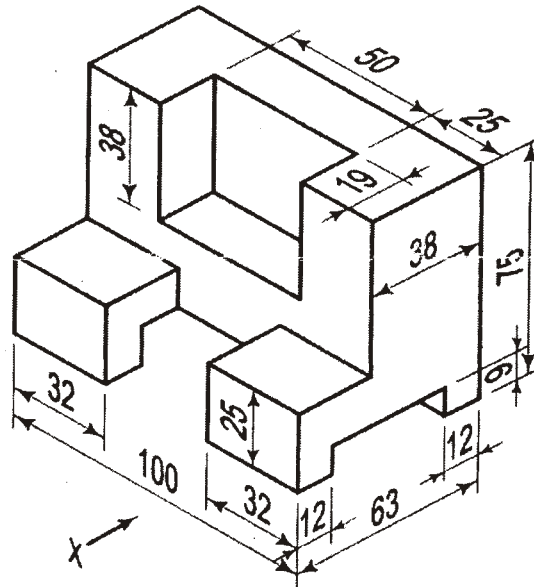
8. Draw the sectional front view, top view and left side view for the pictorial view of guide shown below :

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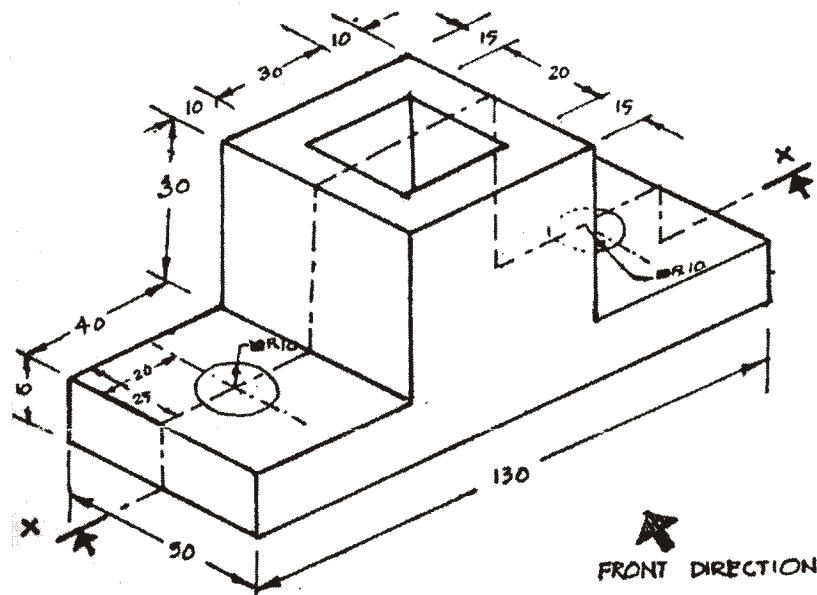
9. Draw the isometric view from the orthographic views given below :

10. A pentagonal pyramid of side of the base 20 mm and height 50 mm stands vertically on its base, with a triangular face perpendicular to VP. A cutting plane perpendicular to VP and inclined at 60° to the axis and it passes through a distance 15 mm from the apex. Develop the lower portion of the pyramid.

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