C09–A–107/C09–AEI–107/C09–BM–107/C09–C–107/
C09–CM–107/C09–CH–107/C09–CHPP–107/C09–CHPC–107/
C09–CHOT–107/C09–CHST–107/C09–EC–107/C09–EE–107/
C09–IT–107/C09–MET–107/C09–M–107/C09–MNG–107/

C09–PET–107/C09–TT–107/C09–RAC–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.

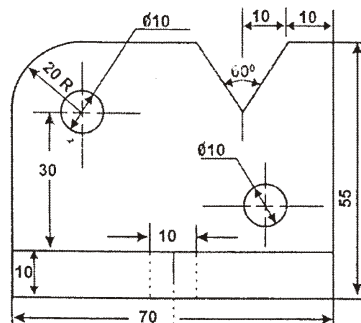(2) Each question carries **five** marks.

(3) Take suitable scale whenever required.
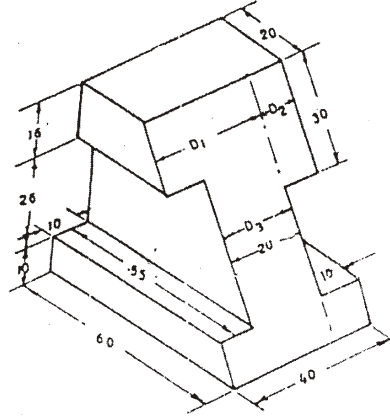
(4) All dimensions are in mm.

1. Print the following in 10 mm size single-stroke vertical capital lettering :
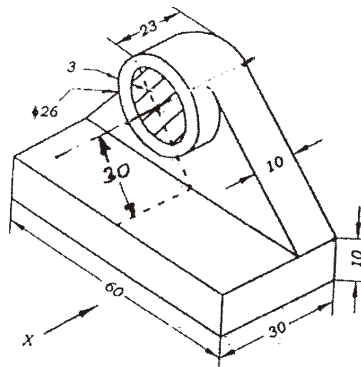
   "DRAWING IS THE LANGUAGE OF ENGINEERS"

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

3. Draw the auxiliary view of the slopping surface of the object shown in the following figure :

4. Draw the top view of the following pictorial drawing in first angle :

PART—B   10×4=40

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

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

(3) Take suitable scale whenever required.

(4) All dimensions are in mm.

5. Construct an ellipse, using concentric circles method, whose major axis is 120 mm and minor axis is 90 mm.

6. Draw the projections of a straight line *AB*, 70 mm long, when it is inclined at 45° to HP with the nearest end 20 mm above HP and parallel to and 30 mm in front of VP.

7. By using appropriate scale, draw the front view, top view and left-hand side view of the following object :
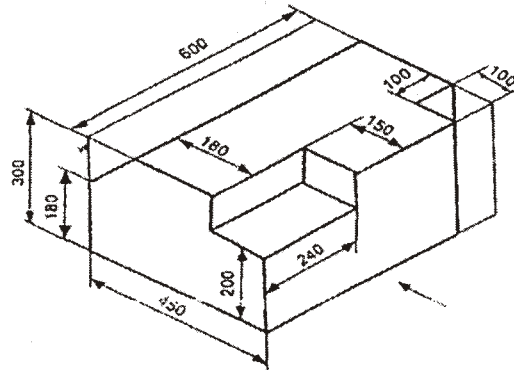
8. Draw the isometric view of the object from the following orthographic views :
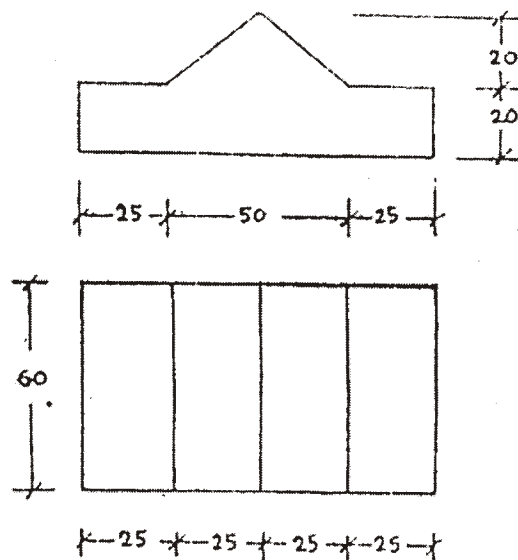
9. A pentagonal pyramid of base side 40 mm and height 80 mm is resting on HP on its base with one of its base side parallel to VP. It is cut by a plane inclined at 30° to HP perpendicular to VP and is bisecting the axis. Draw the front view, sectional top view and true shape of section.

10. A cone of base diameter 50 mm and height 60 mm rests with its base on HP. A section plane perpendicular to VP and inclined at 30° to HP bisects the axis of the cone. Draw the development of the surface of the truncated cone.

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