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C09–CHOT–107/C09–M–**107**

3044

BOARD DIPLOMA EXAMINATION, (C–09)

OCT/NOV—2013

DME—FIRST YEAR EXAMINATION

ENGINEERING DRAWING

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

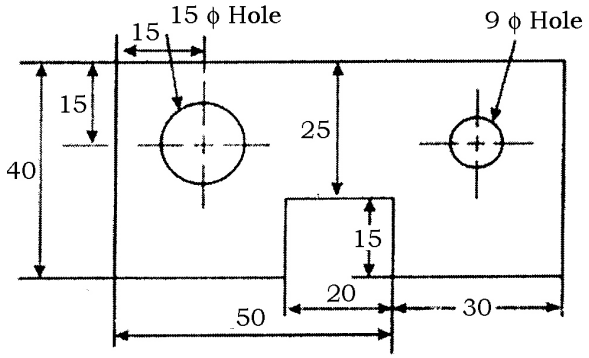
PART—A

Instructions : (1) Answer **all** questions.
(2) Each question carries **five** marks.

1. Print the following line in 10 mm size vertical capital lettering as per SP : 46–1988 :

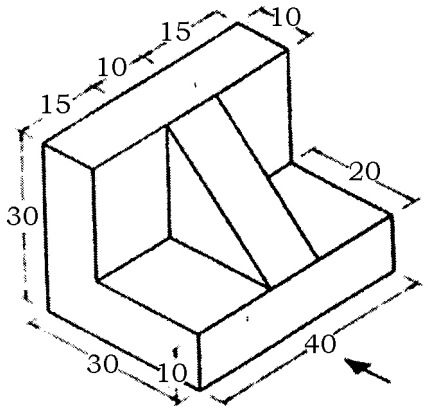
"STATE BOARD OF TECHNICAL EDUCATION"

2. Read the component and its dimensions shown in the figure below :

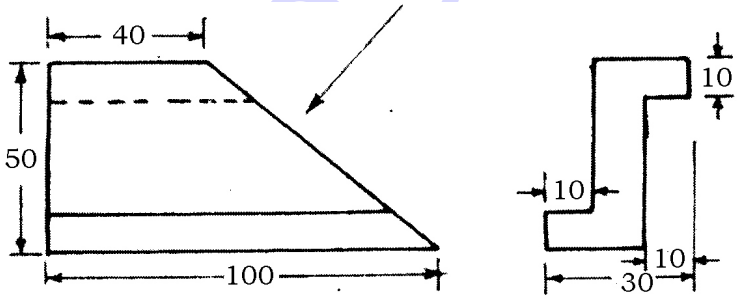


Redraw it in a full scale according to the Bureau of Indian Standards.

3. Draw the front view and top view of the block shown in the figure below :



4. The following figure shows front and side view of an object :



Draw an auxiliary view in the direction of arrow.

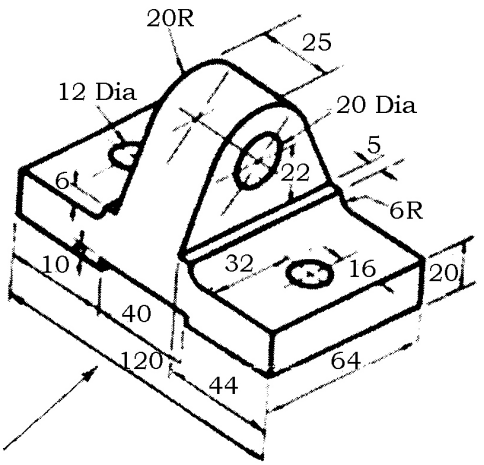
PART—B

Instructions : (1) Answer *any* **four** questions.
(2) Each question carries **ten** marks.

5. Draw a helix of pitch 60 mm on a cylinder of 50 mm.

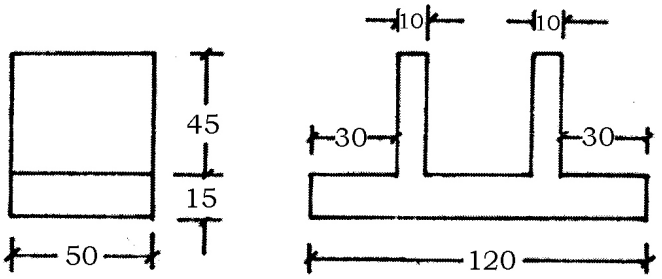
6. A square pyramid, base 40 mm side and axis 65 mm long, has its base in the VP. One edge of the base is inclined at 30° to the HP and a corner contained by that edge is on the HP. Draw its projections.

7. Draw the front view, side view and top view in the first-angle projection of the block given below :



8. A hexagonal pyramid of base 30 mm and height 75 mm is resting on the ground with its axis vertical. It is cut by a plane inclined at 30° to the HP and passing through a point on the axis at 20 mm from the vertex. Draw the elevation and sectional plan.

9. Draw the isometric view of the block given below whose orthographic projections are given to full-size scale :



10. A right circular cylinder of 50 mm diameter and 60 mm long is cut by a section plane perpendicular to VP and inclined at an angle of 60° to the HP. It is passing through a point on the axis at a height of 45 mm from its base. Draw the development of bottom portion of the truncated cylinder.

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