



C-14-CHOT/M/RAC-107

4053

BOARD DIPLOMA EXAMINATION, (C-14)

APRIL/MAY—2015

DME—FIRST YEAR EXAMINATION

ENGINEERING DRAWING

Time : 3 hours ]

[ Total Marks : 60

PART—A

5×4=20

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

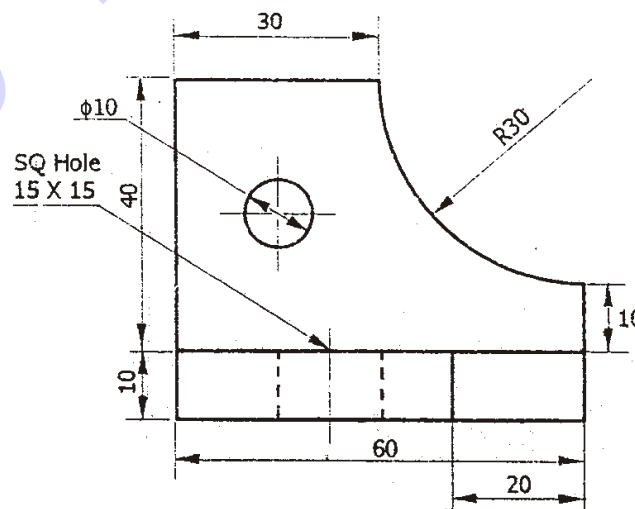
(2) Each question carries **five** marks.

(3) All dimensions are in mm.

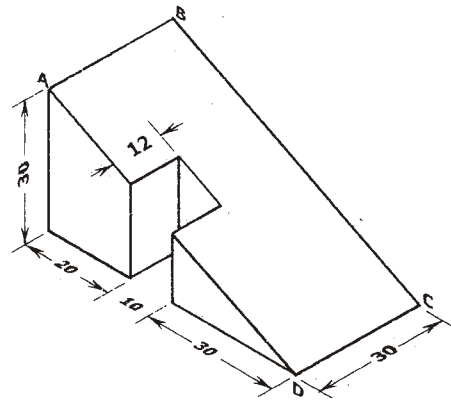
1. Print the following in single-stroke 10 mm size vertical lettering :

“ENGINEERING DRAWING”

2. Redraw the following adopting the recommendations of SP-46:1988 :



3. \* Draw an interior tangent to two unequal circles of radii 25 mm and 30 mm. The distance between the centres is 80 mm.
4. Draw the auxiliary view of the sloping surface of the object shown in the figure given below :



**PART—B**

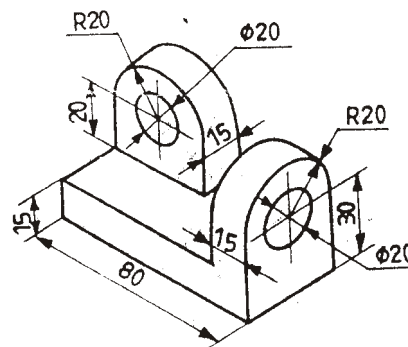
10×4=40

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

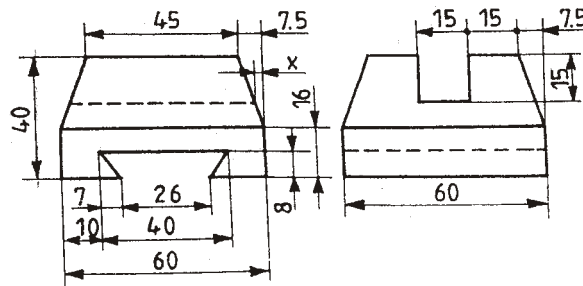
(2) Each question carries **ten** marks.

(3) All dimensions are in mm.

5. Construct an ellipse, with distance of the focus from the directrix is 40 mm and eccentricity as  $2/3$ . Also draw the tangent to the curve at a point 40 mm from directrix.
6. Draw the projections of a cylinder of 40 mm diameter and 60 mm long, when it is lying on HP with its axis inclined at  $45^\circ$  to HP and parallel to VP.
7. Draw the front view, top view and right-side view of the following object in first-angle projection :



8. \* A square prism of base side 45 mm and height 80 mm is resting on HP with its base. All the vertical faces are equally inclined to VP. A vertical section plane passes through the midpoints of two adjacent sides of base and cuts it. Draw top view and sectional front view.
9. The orthographic views are given below :



Draw its isometric view.

10. A hexagonal prism of side of base 30 mm and axis 75 mm long, is resting on its base on HP such that a rectangular face is parallel to VP. It is cut by a section plane, perpendicular to VP and inclined at  $30^\circ$  to HP. The section plane is passing through the top end of an extreme lateral edge of prism. Draw the development of the lateral surface of the prism.

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