



C16-M/CHOT/RAC-107

6055

BOARD DIPLOMA EXAMINATION, (C-16)

MARCH/APRIL—2017

DME—FIRST YEAR EXAMINATION

ENGINEERING DRAWING

Time : 3 hours ]

Total Marks : 60

PART—A

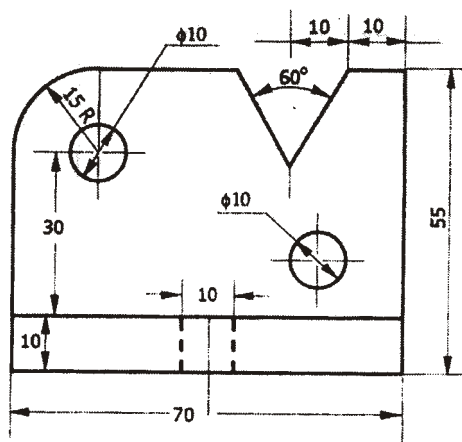
5×4=20

- Instructions :** (1) Answer **all** questions.  
(2) Each question carries **five** marks.  
(3) All dimensions are in mm.

1. Write the following in single stroke vertical lettering of size 10 mm in capital letters :

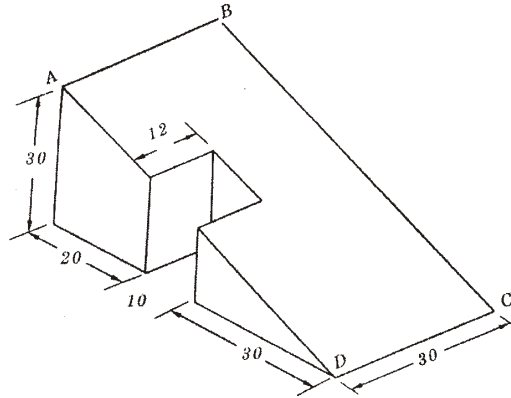
“ALL DIMENSIONS ARE IN MM”

2. Redraw the following figure to full scale by correcting the errors in dimensioning as per SP-46:1988 :



3. Construct regular hexagon of side 25 mm by any one method.

- \* 4. Draw the auxiliary view of the inclined surface for the view given in the figure below :

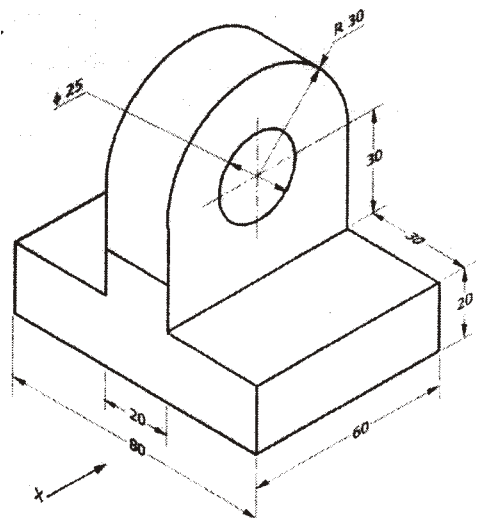


**PART—B**

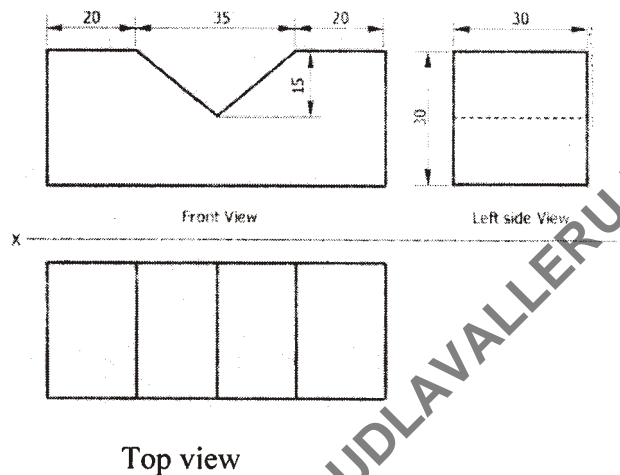
10×4=40

- Instructions :** (1) Answer *any four* questions.  
 (2) Each question carries **ten** marks.  
 (3) All dimensions are in mm.

5. Draw an involute on a square of side 30 mm.
6. Draw the projections of a cone with base 30 mm diameter and axis 50 mm long resting on HP on a point of its base circle with the axis making an angle  $45^\circ$  with HP and parallel to VP.
7. Draw the front view, side view and top view of the following figure :



- \* 8. A hexagonal prism of side of base 20 mm and height 50 mm is standing vertically on HP with its one of rectangular faces parallel to VP. Its cut by a plane which is inclined at  $45^\circ$  to HP perpendicular to VP and passing through one of the top corners of the prism. Develop the lateral part of the cut prism.
9. Draw the isometric views of the object whose orthographic views are given below :



10. A square prism of base side of 30 mm and height 60 mm resting on HP on one of its base with a side of base inclined at  $30^\circ$  to VP. It is cut by a plane inclined at  $45^\circ$  to HP and perpendicular to VP and is bisecting the axis of the prism. Draw the front view, sectional top view and true shape of section.

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