



C14-M/CHOT/RAC-107

4053

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH/APRIL—2017

DME—FIRST YEAR EXAMINATION

ENGINEERING DRAWING

Time : 3 hours]

[Total Marks : 60

PART—A

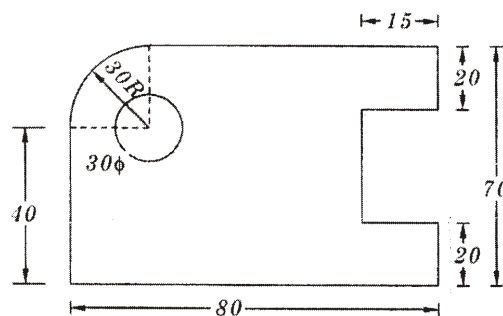
5×4=20

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

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

“DIPLOMA EXAMINATIONS”

2. Redraw the following figure to full-size scale and dimension it according to SP-46:1988 :



3. Construct a hexagon of side 25 mm by using compass.

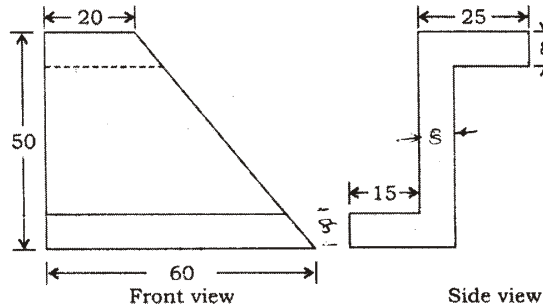
/4053

1

[Contd...

WWW.MANARESULTS.CO.IN

4. Draw the auxiliary view of inclined surface of the object shown in figure below :

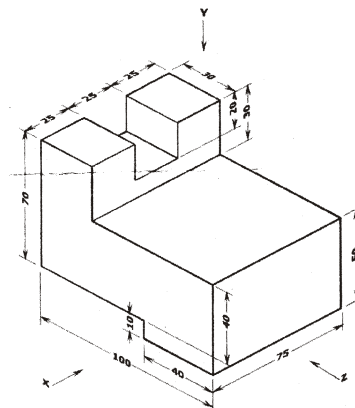


PART—B

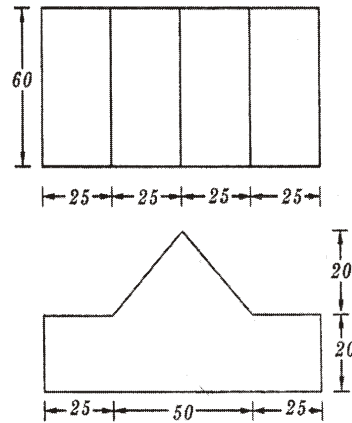
10×4=40

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

5. Draw an involute of a circle of radius 20 mm.
6. Draw the projections of a cylinder of diameter 50 mm and height 80 mm when it rests on its base such that its axis is inclined at 30° to HP and parallel to VP.
7. A pentagonal prism, 30 mm base side and 50 mm axis is standing on HP on its base whose one side is perpendicular to VP. It is cut by a section plane inclined at 45° to HP, through midpoint of axis. Draw the front view, sectional top view.
8. Draw the orthographic views of the object shown in the figure below :



9. Draw the isometric drawing of an object whose front view and top views are given below :



10. A cone of base diameter 40 mm and height 80 mm is standing vertically on HP. It is cut by a plane which is inclined at 45° and passing through the midpoint of the axis. Draw the development of the lateral surface of the cone bottom portion.
