

$c_{14-M/CHOT/RAC}-107$

4053

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH/APRIL—2017

DME—FIRST YEAR EXAMINATION

ENGINEERING DRAWING

Time : 3 hours]

[Total Marks : 60

5×4=20

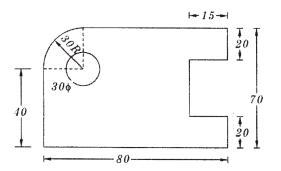
PART—A

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 :

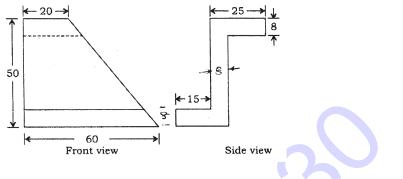


3. Construct a hexagon of side 25 mm by using compass.

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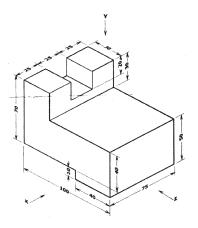
4. Draw the auxiliary view of inclined surface of the object shown in figure below :



PART-B

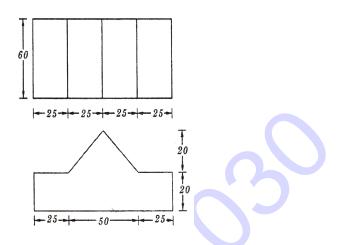
10×4=40

- **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 :



[Contd...

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.

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