



C09-CHPP-107/C09-EE-107

3038

BOARD DIPLOMA EXAMINATION, (C-09)

MARCH/APRIL—2014

DEEE—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) Take suitable scale wherever required.

(4) All dimensions are in mm.

1. Write the following in 10 mm size vertical letters :

“SMALL THINGS MAKE PERFECTION”

2. Redraw the Fig. 1 to full size and dimension it according to SP:46-1988 :

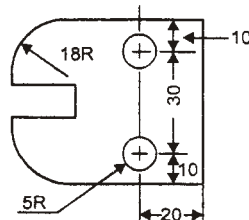


Fig. 1

PART—B

10×4=40

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

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

(3) All dimensions are in mm.

5. Plot one complete turn of a cylindrical helix 50 mm diameter and 60 mm pitch. Also draw the development of the helical curve.

6. A cone, with base 30 mm diameter and axis 45 mm long, lies on a point of its base on VP such that the axis makes an angle 45° with VP. Draw the projections of the cone.

7. Draw the front view, top view and side view of the object shown in Fig. 4 :

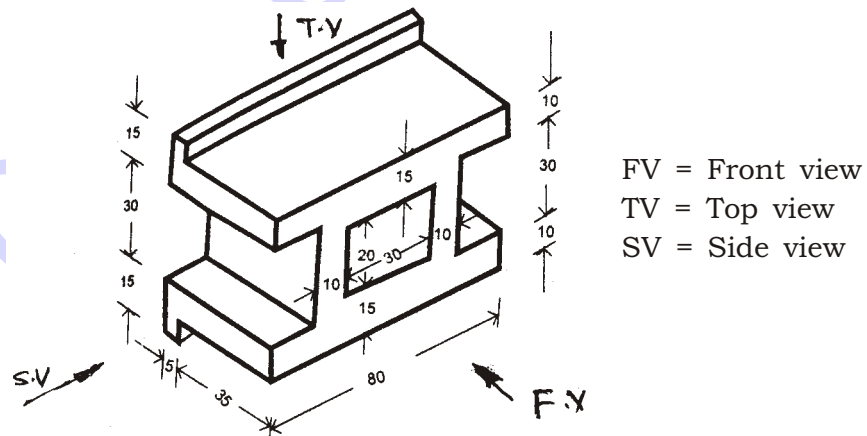


Fig. 4

8. A hexagonal prism of base edge 30 mm and axis 70 mm is resting with one of its axis parallel to both the planes. It is cut by a sectional plane perpendicular to VP and 45° to HP. It cuts one of the ends at a distance of 20 mm from the bottom. Draw the sectional top view and true shape of the section.

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9. Draw the isometric projection of the object the views of which are given below :

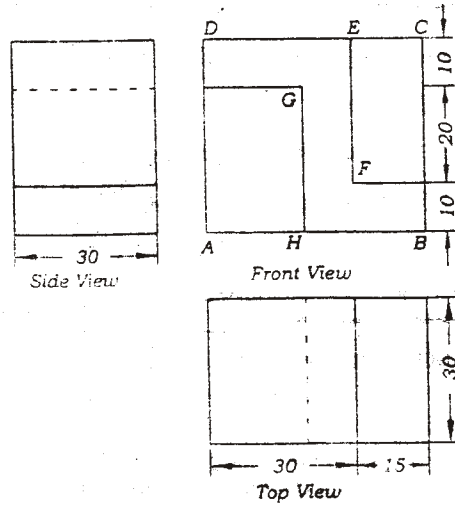


Fig. 5

10. A pentagonal prism of side of base 20 mm and height 50 mm stands vertically on its base, with a rectangular face perpendicular to VP. A cutting plane perpendicular to VP and inclined at 60° to the axis, passes through the edge of the top left corner of the prism. Develop the lower portion of the lateral surface of the prism.

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