23018

C23-AEI-BM-CH-CHST-CCN--EE-EEVT-TT–107

23018

BOARD DIPLOMA EXAMINATION, (C-23)

MARCH/APRIL—2025

FIRST YEAR (COMMON) EXAMINATION

ENGINEERING DRAWING

Time : 3 Hours] [*Total Marks* : 60

PART—A 5×4=20

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

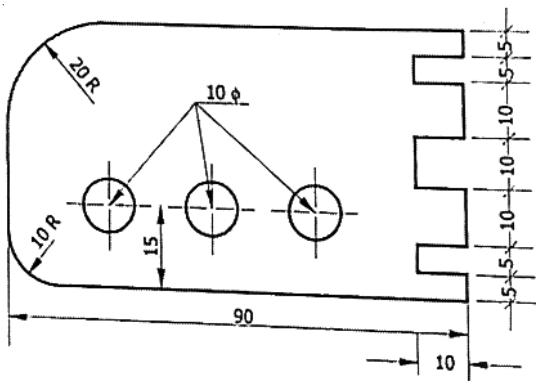
(2) Each question carries **five** marks.

(3) All the dimensions are in mm.

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

"GOVERNMENT OF ANDHRA PRADESH"

2. Redraw the following figure in full scale according to Bureau of Indian Standards :



3. Construct a hexagon of side length 30 mm by general method.

4. Draw the projections of a straight line 75 mm long when it is parallel to both HP and VP. It is 25 mm in front of VP and 50 mm above HP.

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PART—B

10×4=40

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

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

(3) All the dimensions are in mm.

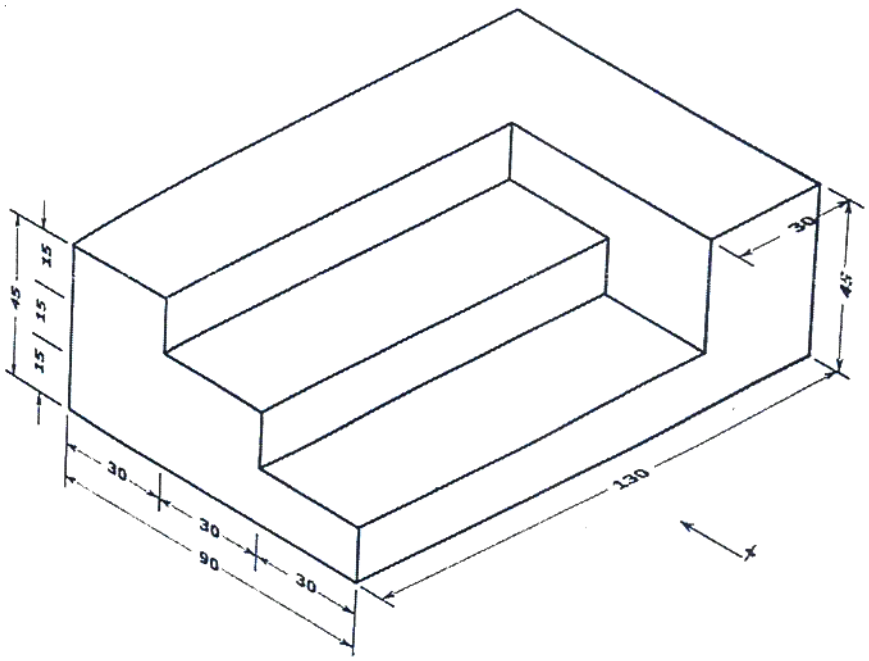
5. Draw an involute on a pentagon of side 25 mm.

6. A circular plane of diameter 60 mm is touching the VP with a point on its circumference. The plane is inclined at 45° to VP and perpendicular to HP. The centre of plane is 40 mm above HP, draw the projections.

7. A hexagonal pyramid side of base 30 mm and height 60 mm rests with its base on HP such that one of the edges of the base is parallel to and 10 mm in front of VP. Draw its projections.

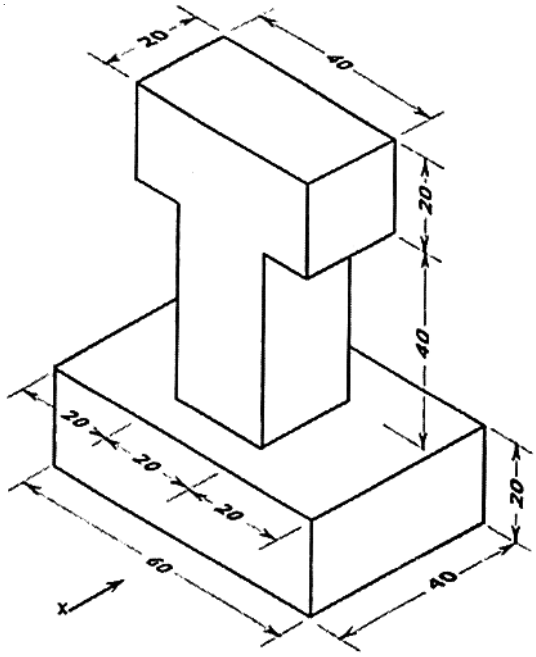
8. A square prism of base side 30 mm and height 60 mm is resting on HP on one of its bases, with a base side inclined at 30° to VP. It is cut by a plane inclined at 45° to HP and perpendicular to VP and is bisecting the axis of the prism. Draw its front view, sectional top view and the true shape of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

9. Draw front view, top view and left side view for the figure shown below :



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10. Draw front view, top view and left side view for the figure shown below :



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