



C16-M-107

6020

BOARD DIPLOMA EXAMINATION, (C-16)

OCTOBER—2020

DCE—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.

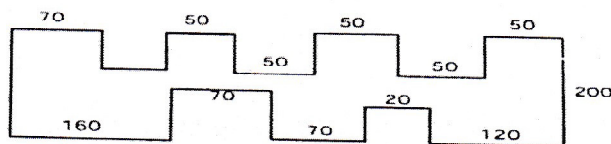
(3) Take suitable scale wherever required.

(4) All dimensions are in mm.

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

STRENGTHEN THE MORAL VALUES

2. Draw the figure to a suitable scale and dimensions as per chain dimensioning :



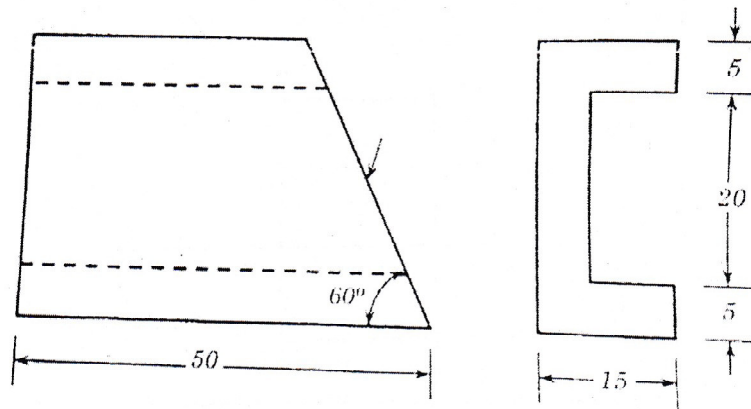
3. Construct an ellipse if the distance between foci is 80 mm and length of minor axis is 60 mm.

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[Contd....

4. Draw the Auxiliary view of the inclined surface of the given views.



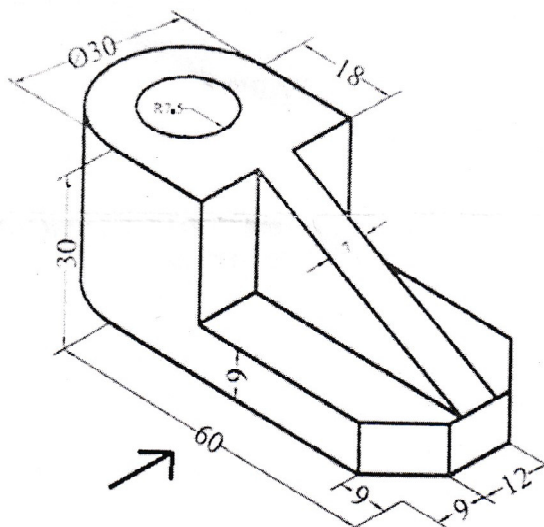
PART—B

10×4=40

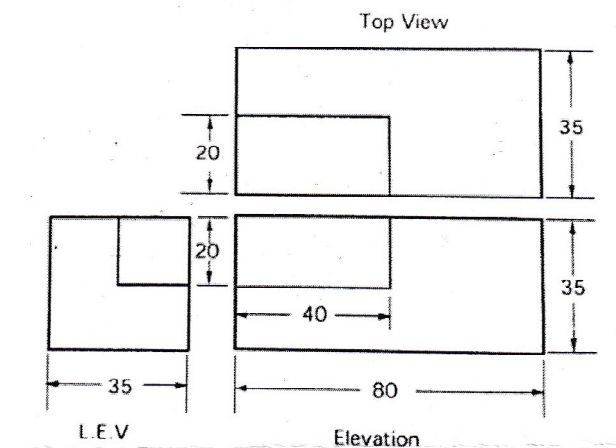
Instructions : (1) Answer *any four* questions.

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

5. A circle of 50 mm diameter rolls along a line for one revolution clockwise. Draw the locus of a point on the circumference of a circle which is in contact with a line.
6. Draw the projection of a cube 50 mm long edge, resting on the ground on one of its comers. Its base is inclined at 45° to HP.
7. The figure shows a machine block. Draw (a) Sectional Front view
(b) Top view.



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8. A hexagonal pyramid of base edge 20 mm and axis length 60 mm is resting on the ground at one of the edges perpendicular to VP. It is cut by a plane inclined at 45° to HP and passing through Midpoint on the axis. Draw elevation and Sectional Top view.
 9. Draw the isometric view of an object whose orthographic views are shown below.



10. A hexagonal pyramid of side 30 mm at height 65 mm is resting on its base in HP. One of its base sides is parallel to VP. It is cut by the cutting plane which is parallel to HP and perpendicular to VP and passing at a height of 45 mm from its bottom. Draw the development of the surface.

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