# 5005

## BOARD DIPLOMA EXAMINATION, (C-16)
## OCTOBER/NOVEMBER-2018
## DAE-FIRST YEAR EXAMINATION

### ENGINEERING DRAWING

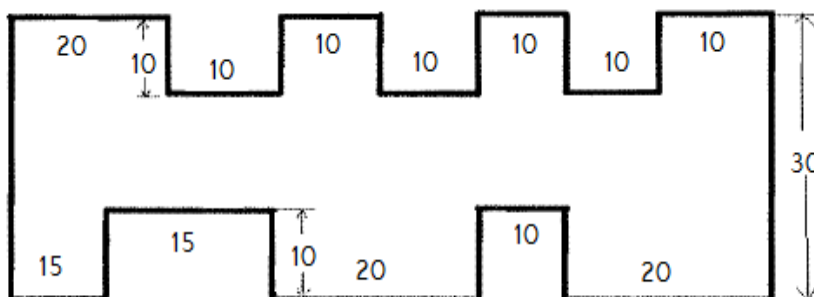*Time :* 3 Hours  ] [ Total Marks: 60

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### PART-A

2X15=30

*Instructions   :*   1. Answer **All**  question and each question carries five marks.

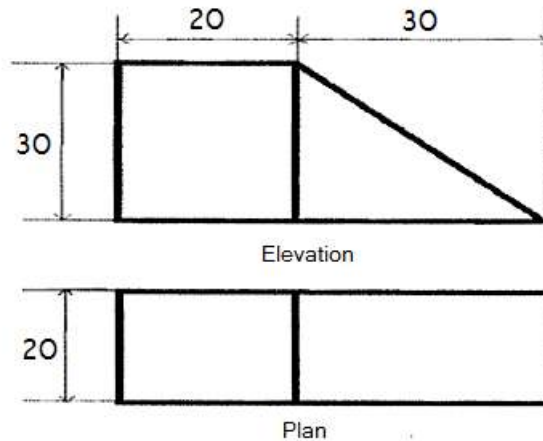2. Take suitable scale wherever required.

3. All dimensions are given in mm.

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

   " STRENGTHEN THE MORAL VALUES "

2. Redraw the figure given below to a suitable scale and dimension as per chain

   dimensioning ?

3. Draw tangents to a circle of 30 mm diameter from a point, at a distance of 40 mm from the centre of the circle ?

4. Draw an auxiliary end view for the following orthogonal views ?



**PART-B**

10X5=50

*Instructions* : 1. Answer any **four** questions and Each question carries **ten** marks.

2. Take suitable scale wherever required.

3. All dimensions are given in mm.

5. The vertex of a hyperbola is 65 mm from its focus. Draw the curve, if the eccentricity is 3/2. Draw a normal and a tangent at a point on the urve, 75 mm from the directrix ?

6. Draw the projections of a pentagonal prism of base side 25 mm and height 60 mm which is resting on HP with one of its base which is perpendicular to HP such that the is axis is making an angle of $45^0$ degree to HP and parallel to VP ?

7. A regular hexagonal pyramid of side 30 mm and height 65 mm is resting on its base on HP and one of its base edge is parallel to HP. It is cut by a cutting plane which is perpendicular to VP, makes an angle of 450 to HP and passing through a height of 45 mm from its bottom. Draw its front view & sectional top view ?

8. Draw the front view, top view and right side view from the given object as shown in the figure :
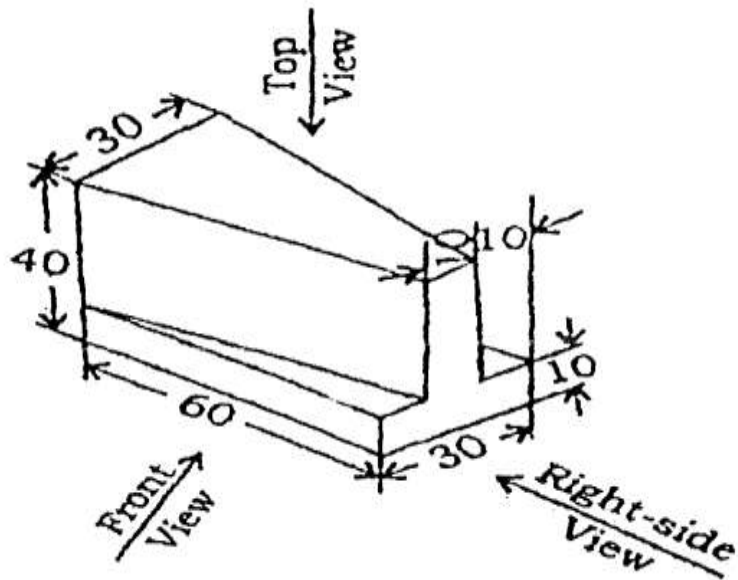


9. Draw an isometric view of an object whose orthographic projections are given below ?
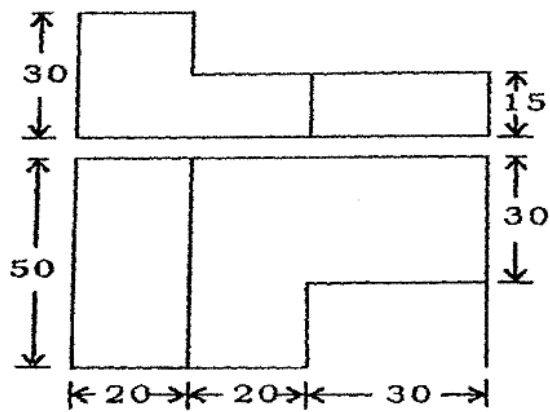


Orthographic View in
First-Angle Projection

10. A square pyramid of side of base 40 mm and height 60 mm is standing vertically on its Base with one of its edges parallel to V.P. it is cut by a horizontal plane at a height of 30 mm from base. Develop the lateral surface of the truncated pyramid ?

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