



C-16-A/CHST/C/CM/EC/EE/M/

AEI/MNG/IT/PKG-107

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**BOARD DIPLOMA SUPPLEMENTARY (INSTANT)
EXAMINATION, (C-16)**

JUNE - 2019

**FIRST YEAR (COMMON) EXAMINATION
ENGINEERING DRAWING**

Time : 3 Hours]

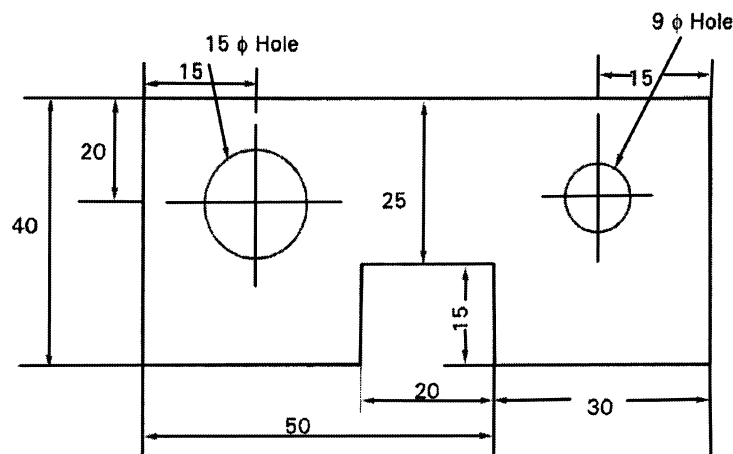
[Total Marks : 60

PART - A

5×4=20

- Instructions :**
- (1) Answer **ALL** questions
 - (2) Each question carries **FIVE** marks.
 - (3) Assume any missing data suitably.
 - (4) All dimensions are in mm.
 - (5) Take suitable scale wherever required.

- 1 Write the following in single stroke Inclined lettering of size 14mm :
"DRAWING IS THE LANGUAGE OF ENGINEERS"
- 2 Redraw the following figure and dimension it in aligned system.

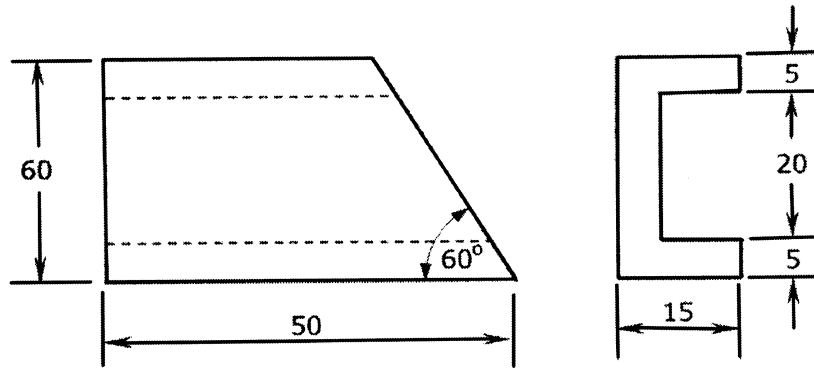


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- 3 Construct a regular hexagon of side 40 mm
- 4 Draw the auxiliary view of the inclined surface for the views given in the figure below :



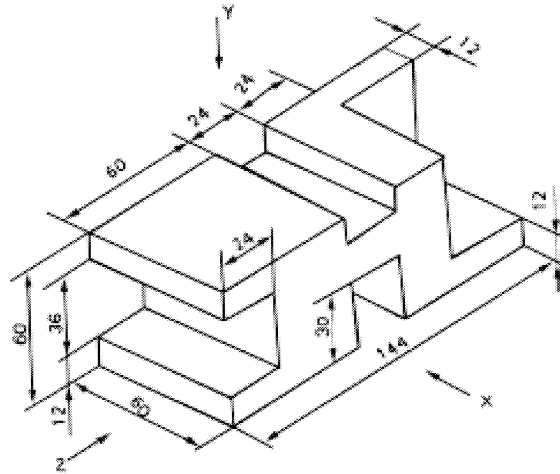
PART - B

10×4=40

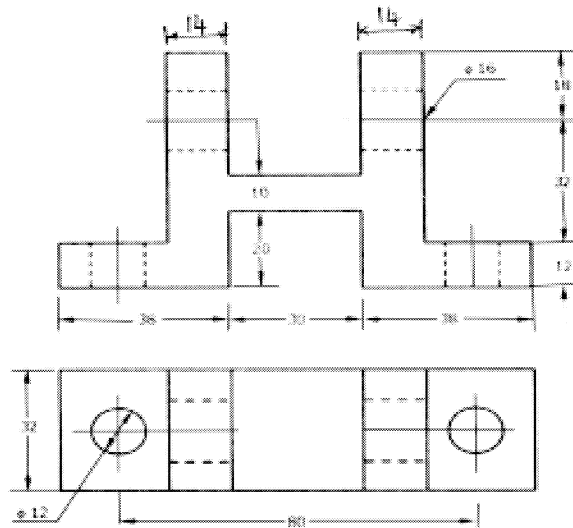
- Instructions :**
- (1) Answer any **FOUR** questions
 - (2) Each question carries **TEN** marks.

- 5 Construct a cycloidal curve for a circle of 50mm diameter.
- 6 Draw the projection of a circle of 40mm diameter having its plane vertical and inclined at 30° to VP. The centre of circle is 35mm above HP and 25mm in front of VP.
- 7 A hexagonal pyramid of base side 30mm and height 75mm is resting on the ground with its axis vertical. It is cut by a plane inclined at 30° to the HP and passing through a point on the axis at 20mm from the top of pyramid. Draw the sectional front view, top view and true shape of the section.

- 8 Draw the following views of the object shown in fig.
- Front view X direction
 - Left side view Z direction
 - Top view Y direction



- 9 Draw the isometric view from the orthographic projections shown below :



- 10 A cylinder of diameter of base 40mm and height 50mm is standing on its base on HP. A cutting plane inclined at 45° to the axis of the cylinder passes through the left extreme point of the top base. Develop the lateral surface of the truncated cylinder.