



C20-M-CHOT-107

7052

BOARD DIPLOMA EXAMINATION, (C-20)

JUNE/JULY—2022

DME – FIRST YEAR EXAMINATION

ENGINEERING DRAWING

Time : 3 hours ]

[ Total Marks : 60

**PART—A**

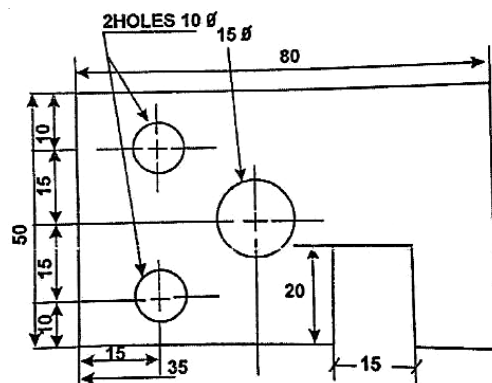
5×4=20

- Instructions :**
- (1) Answer **all** questions.
  - (2) Each question carries **five** marks.
  - (3) **All** dimensions are in mm.

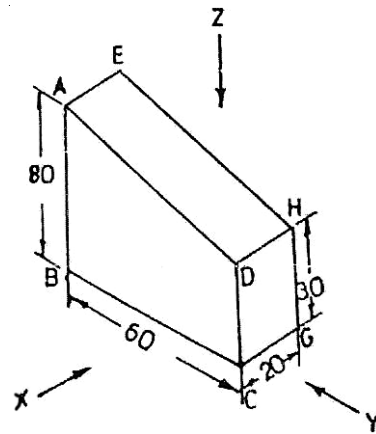
1. Print the following in single stroke vertical lettering of 10 mm size in capital letters.

“GOOD DRAWING MAKES EXECUTION EASY”

2. Redraw the following figure to full scale and dimension as per unidirectional system :



3. Construct hexagon in a circle of diameter 70 mm.
4. Draw the auxiliary view of the inclined surface as shown in figure.

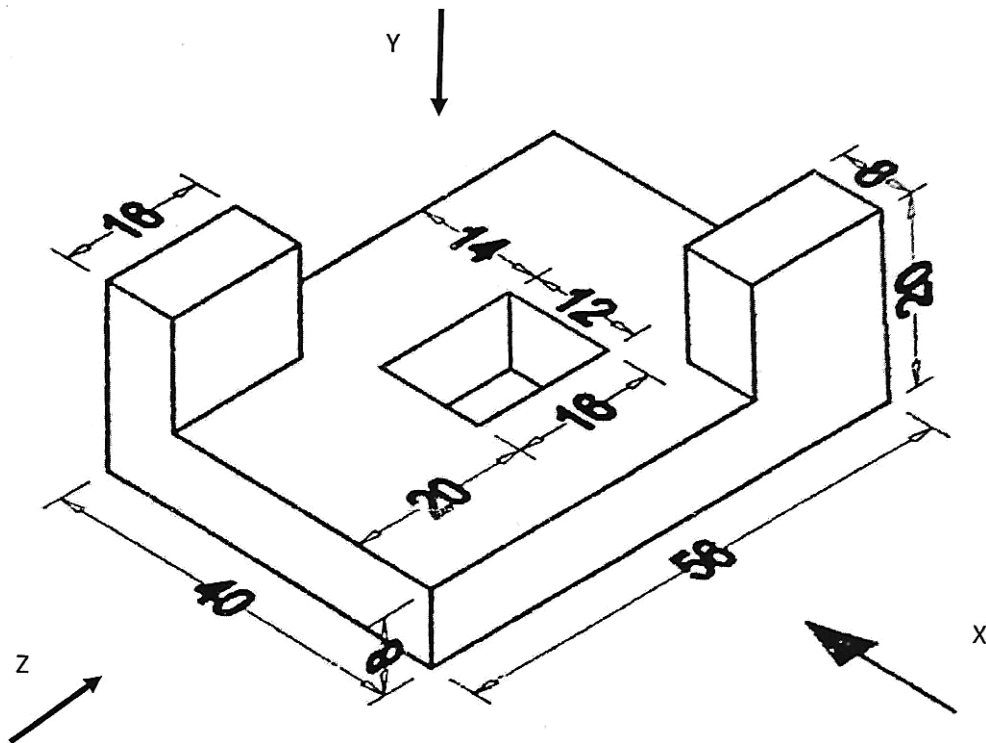


### PART—B

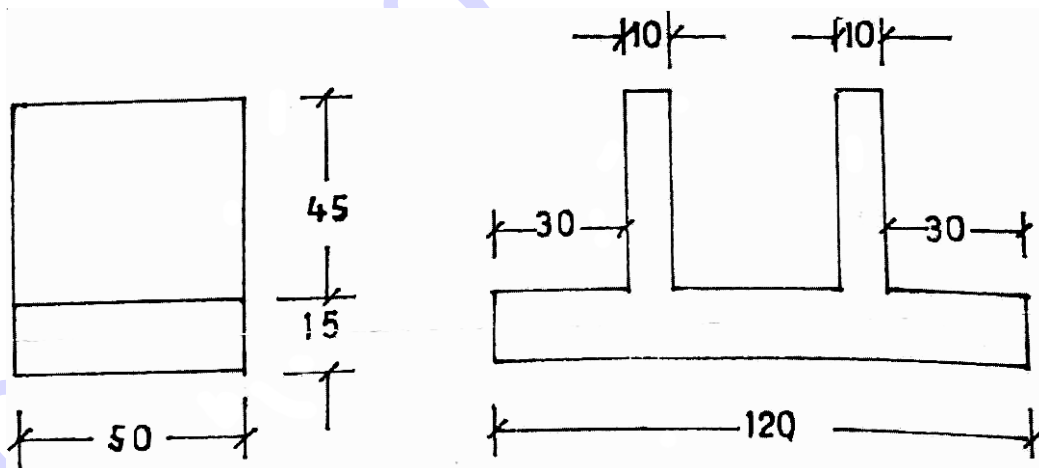
10×4=40

- Instructions :**
- (1) Answer *any four* questions.
  - (2) Each question carries **ten** marks.
  - (3) **All** dimensions are in mm.

5. Construct a cycloid curve to a circle of radius 20 mm.
6. Draw the projection of a cone, base 30 mm diameter and axis 50 mm long resting on HP on a point of its base circle with the axis making an angle of  $45^\circ$  with HP and parallel to VP.
7. A hexagonal pyramid of base side 30 mm and height 75 mm is resting on the ground with its axis vertical. It is cut by a plane inclined at  $30^\circ$  to the HP and passing through a point on the axis at 20 mm from the vertex. Draw the elevation and sectional plane.
8. Draw front view, top view and side view of the object given below. X indicates front view, Y indicates top view and Z indicates side view.



9. Draw an Isometric view of an object whose orthographic views are given below.



10. Develop the lateral surface of a pentagonal pyramid of base side 25 mm and height 60 mm.

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