



C20-COMMON-107

7005

BOARD DIPLOMA EXAMINATION, (C-20)

OCTOBER / NOVEMBER—2023

DAE – 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 the dimensions are in mm.
(4) Use first angle of projection only.
(5) Due weightage will be given for dimensioning and neatness.

1. Print the following in single-stroke capital upright letters in 12 mm size
DIPLOMA IN AUTOMOBILE ENGINEERING
2. Draw the following figure to suitable scale and dimension it as per
SP : 46 – 1988

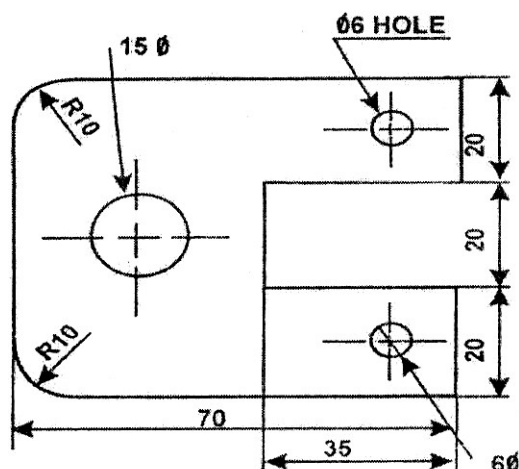


Fig. 1

3. Inscribe a Pentagon in circle of diameter 60mm.
4. Draw the Auxiliary view of the inclined surface of the object shown in fig.2

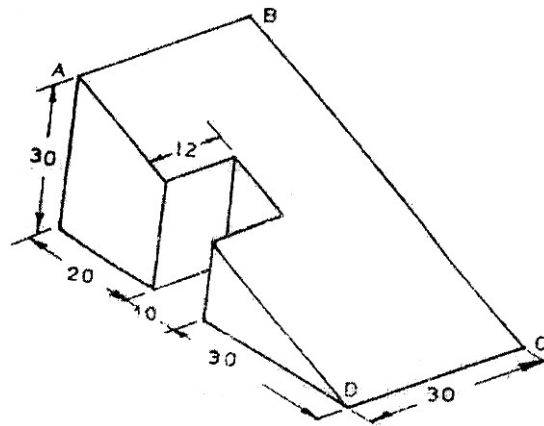


Fig. 2

PART—B

10×4=40

- Instructions :**
- (1) Answer *any four* questions.
 - (2) Each question carries **ten** marks.
 - (3) All the dimensions are in mm.
 - (4) Use first angle of projection only.
 - (5) Due weightage will be given for dimensioning and neatness.

5. Draw internal common tangent to two unequal circles of radius 20 mm and 15mm respectively. The distance between the centres is 70 mm.
6. Draw the projections of pentagonal prism, base 25 mm side and axis 50mm long, resting on one its rectangular faces on the H.P. with the axis inclined at 45° to be V.P.

7. Draw the front view and top view of the following Fig. 3

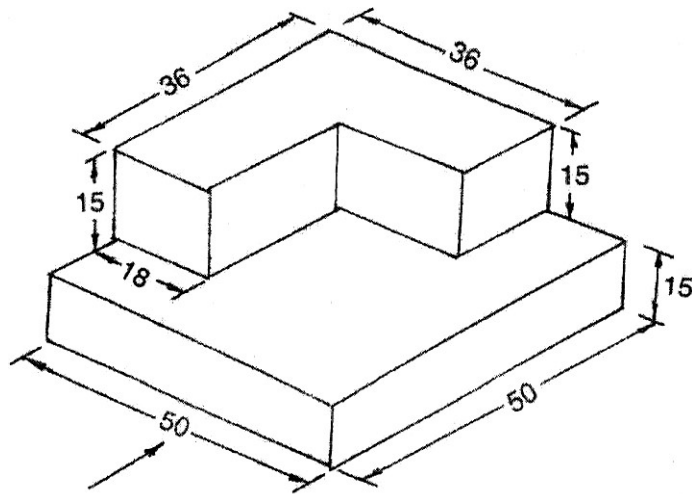


Fig. 3

8. Draw the sectional front view and top view of the object shown in figure 4.

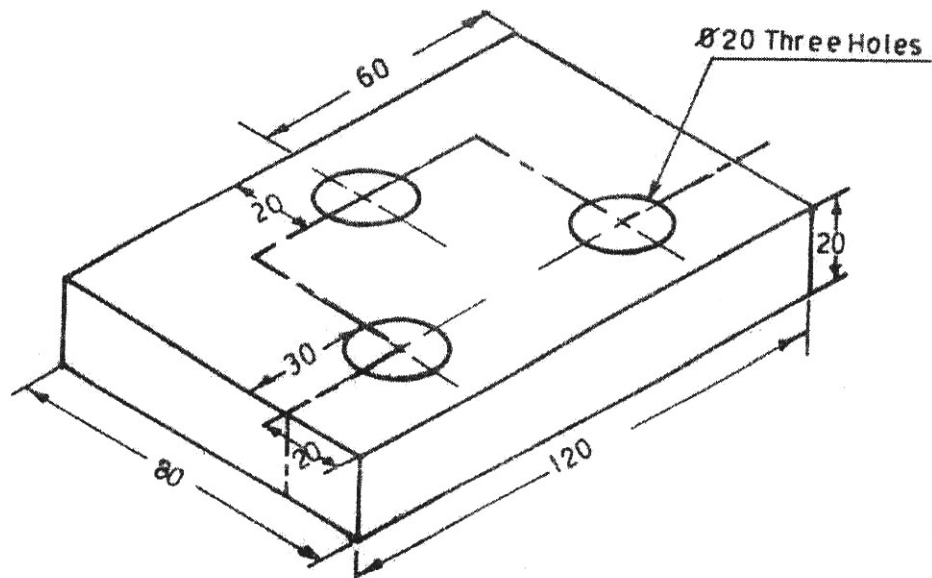


Fig. 4

9. The front view and top view of block are shown in Fig. 5. Draw its isometric view.

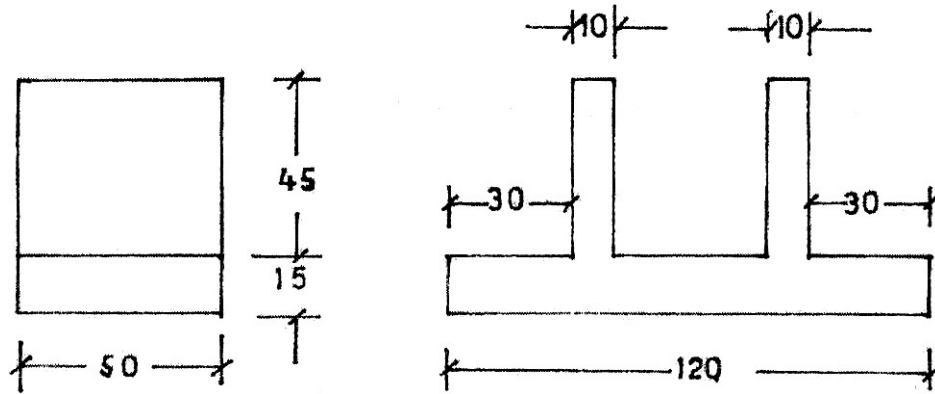


Fig. 5

10. A right circular cylinder of 55 mm diameter and 66 mm long is cut by a section plane perpendicular to V.P. and inclined at an angle of 60° to the H.P. It is passing through a point on the axis at a height of 45 mm from its base. Draw the development of bottom portion of the truncated cylinder.

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