

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/  
MANAGEMENT/COMMERCIAL PRACTICE, APRIL – 2023**

**ENGINEERING GRAPHICS**

[Maximum Marks: 100]

[Time: 3 Hours]

- [Note:- 1. A2 size drawing sheet to be supplied.  
2. First angle projection is to be followed.  
3. Dimensions should be as per BIS.  
4. Both sides of the drawing sheet can be used.  
5. Sketches on the next page.]

**PART-A**

[Maximum Marks: 10]

I. (Answer *all* questions in one or two sentences. Each question carries 2 marks)

1. Write any four types of lines using in engineering drawing.
2. What do you mean by projection?
3. What is the use of an auxiliary view?
4. What do you mean by development of surfaces?
5. Write any two CADD packages.

(5 x 2 = 10)

**PART-B**

[Maximum Marks: 50]

(Answer *any five* of the following questions. Each question carries 10 marks)

- II. Redraw the given figure-1 to full size and dimension it as per BIS.
- III. Draw an ellipse by concentric circle method. Given the major and minor axes as 100 mm and 60 mm respectively.
- IV. Construct a regular hexagon of side 30 mm.
- V. Draw a plain scale of 1cm=5 metres and show on it 38 metres.
- VI. Draw projections of the following points on a common reference line.
  - i. Point A in HP and 30 mm in front of VP
  - ii. Point B in HP and 40 mm behind VP
  - iii. Point C in both HP and VP.
  - iv. Point D in VP and 25mm above HP.
  - v. Point E in VP and 35mm below HP.



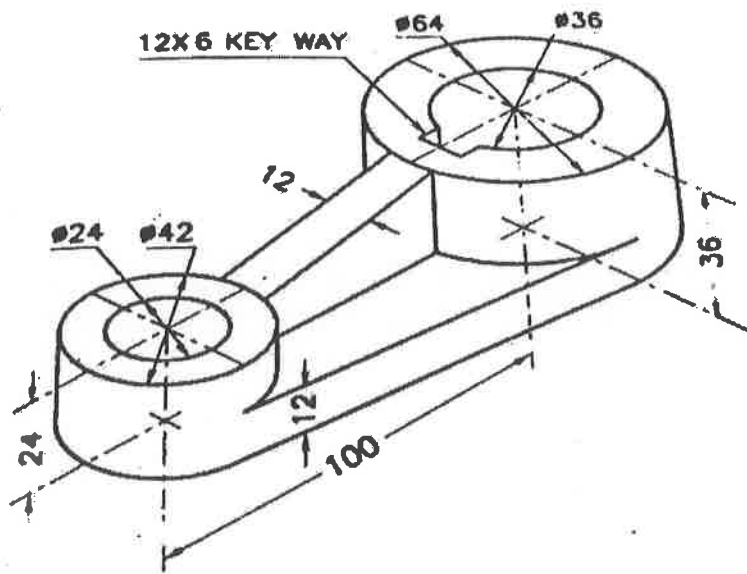


Fig - 4

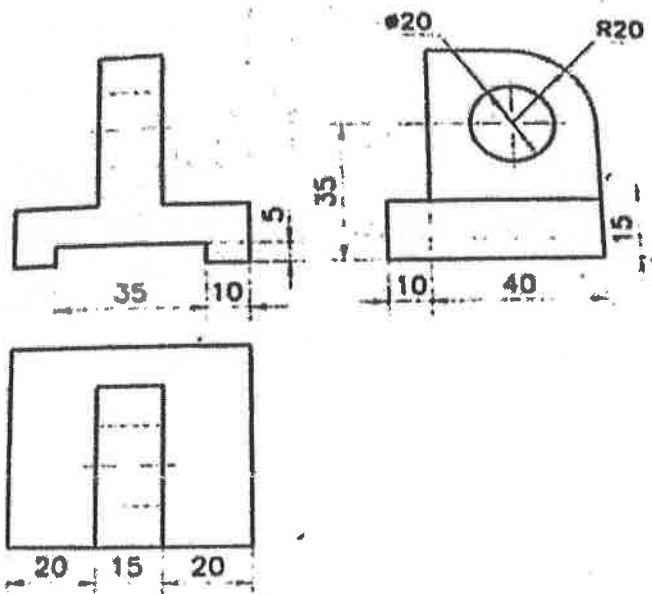


Fig - 5

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