



**NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**FACULTY OF ENGINEERING**  
**DEPARTMENT OF INDUSTRIAL AND MANUFACTURING**  
**ENGINEERING**  
**ENGINEERING DRAWING II**

**EIE 1201**

**Second Semester Main Examination Paper**

**October 2024**

This examination paper consists of 6 pages.

**Time Allowed: 3 hours**

**Total Marks: 100**

**Examiner Name: Mr N M Dewa**

**INSTRUCTIONS**

1. Answer all questions in Section A, and any two in Section B.
2. Each question in Section B carries 20 marks.
3. All dimensions are in mm.

## Section A

### Question 1

Figure Q1 shows details of a Template. On an already prepared A3 drawing sheet, set for 2D drawing. Write down steps, commands and prompts to be followed in drawing the Template to also include the hatching process. Do not include dimensions, as well as procedure for line types and line weights. [30 marks]

### Question 2

Two Views of a Locating Bracket are shown in Figure Q2 in First Angle Projection. On an already prepared A3 size drawing paper, set for 3D drawing, explain the procedure followed in drawing the Locating Bracket in 3D. Use very brief statements and free hand sketches to describe each step, commands and prompts to be followed. (Do not include dimensions, as well as procedure for line types and line weights). [30 marks]

## Section B

### Question 3

Details of a Bearing Component are given in Figure Q3, alongside the 3D view. On an already prepared A3 drawing sheet set for 3D drawing in SW isometric, give the entries, commands and prompts to be followed in drawing the Bearing Component using the Revolve method through 270 degrees. (Do not include dimensions, as well as procedure for line types and line weights). [20 marks]

### Question Q4

A Tracing Plate is shown in Figure Q4. Write down the coordinate entries to be used to draw the Plate:

- Using the Cartesian coordinate system, starting point X (290,160) and moving vertically upwards in the anti-clockwise direction. [10 marks]
- Using the Relative Coordinate system, starting point T (190,150) and moving upwards in the clockwise direction. [10 marks]

### Question 5

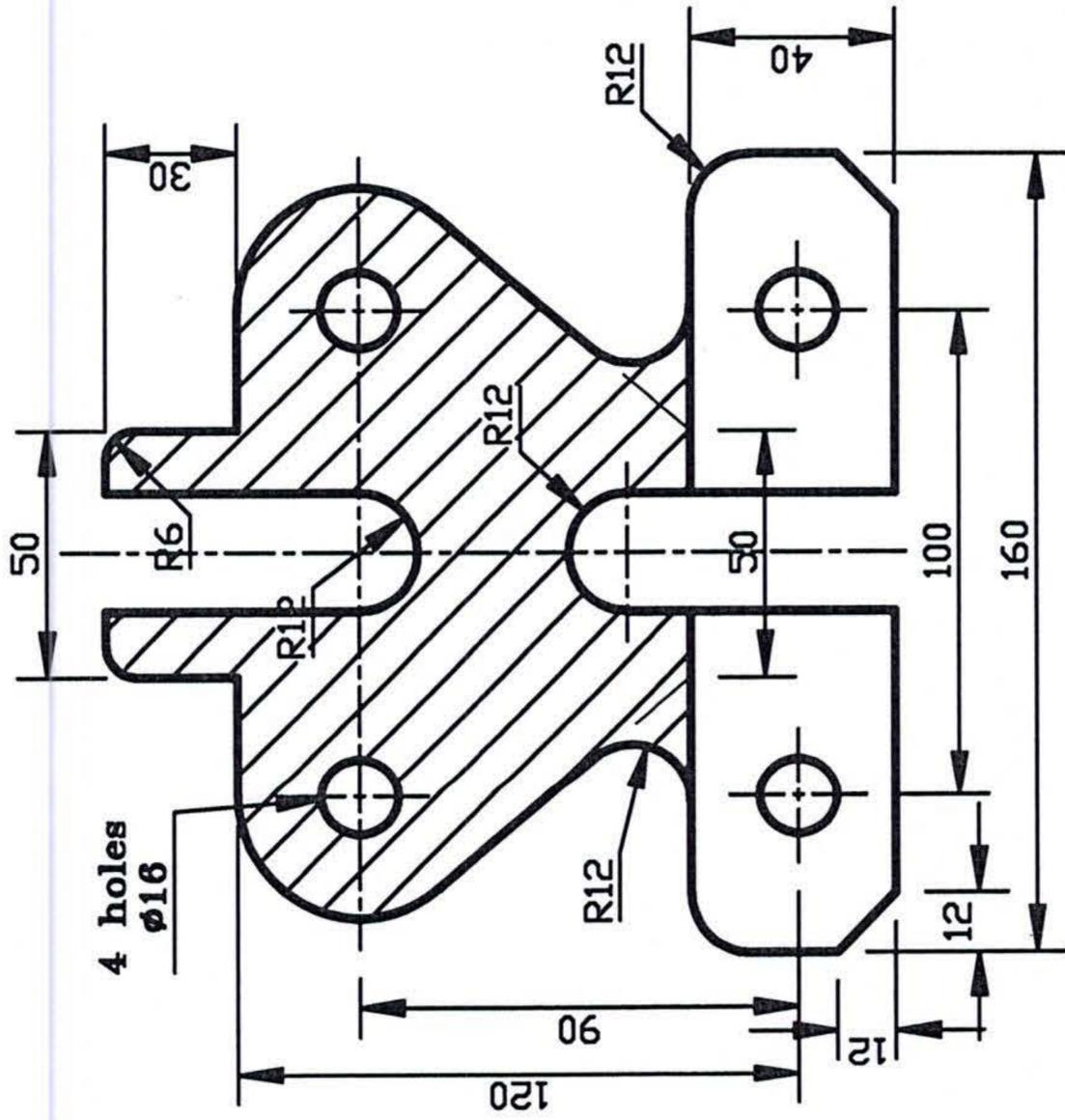
- Describe three types of lines used in AutoCAD drawing giving their recommended lineweights. [6 marks]
- Explain how the Centre line is loaded on the "Linetype Manager" Dialogue Box and the necessary settings to be done. [7 marks]
- Explain seven areas to be set on the "Modify Dimension Style: Standard" Dialogue Box giving examples in preparation for dimensioning. [7 marks]

**End of Exam**

**Engineering Drawing**

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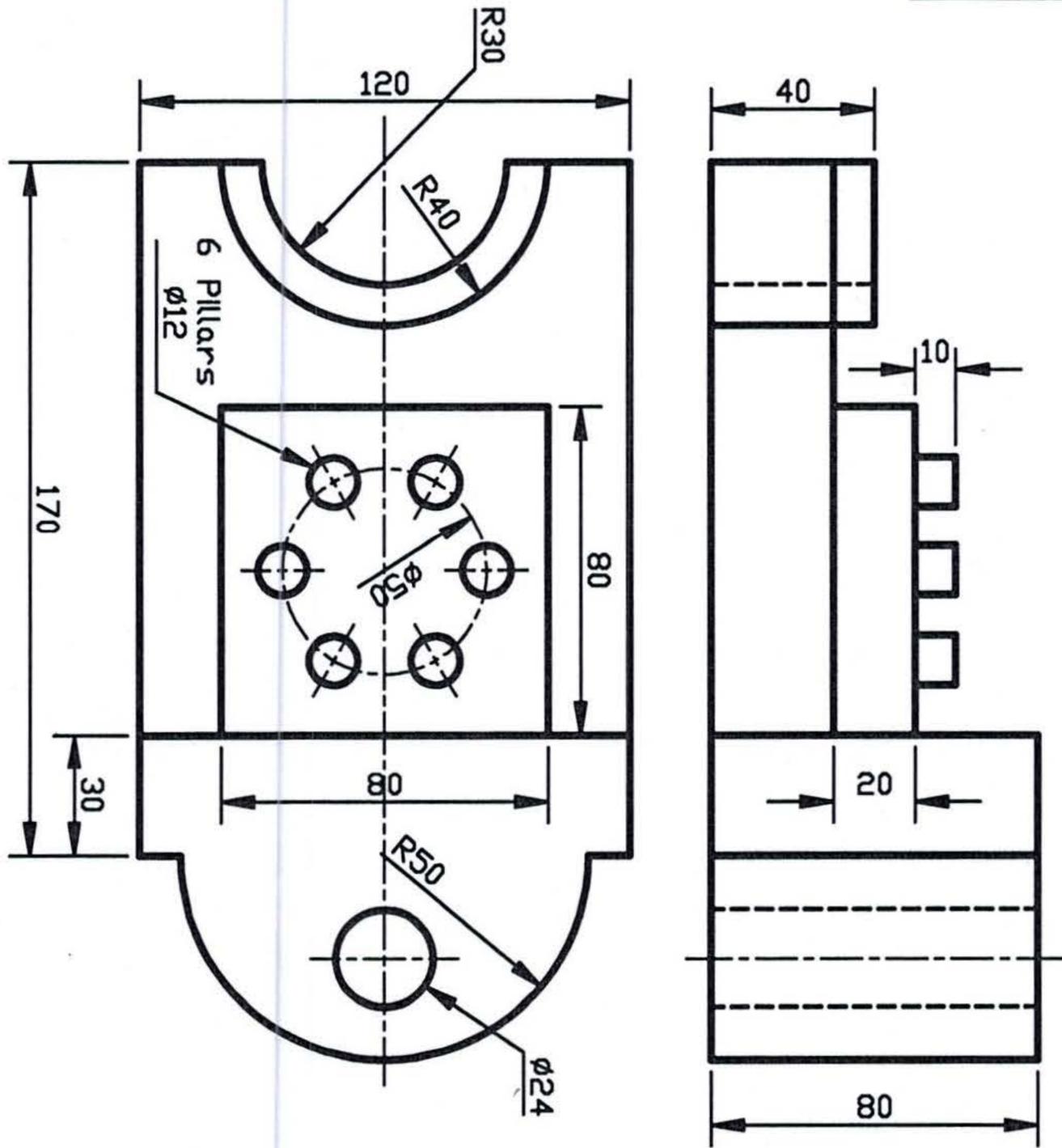


**Figure Q1**

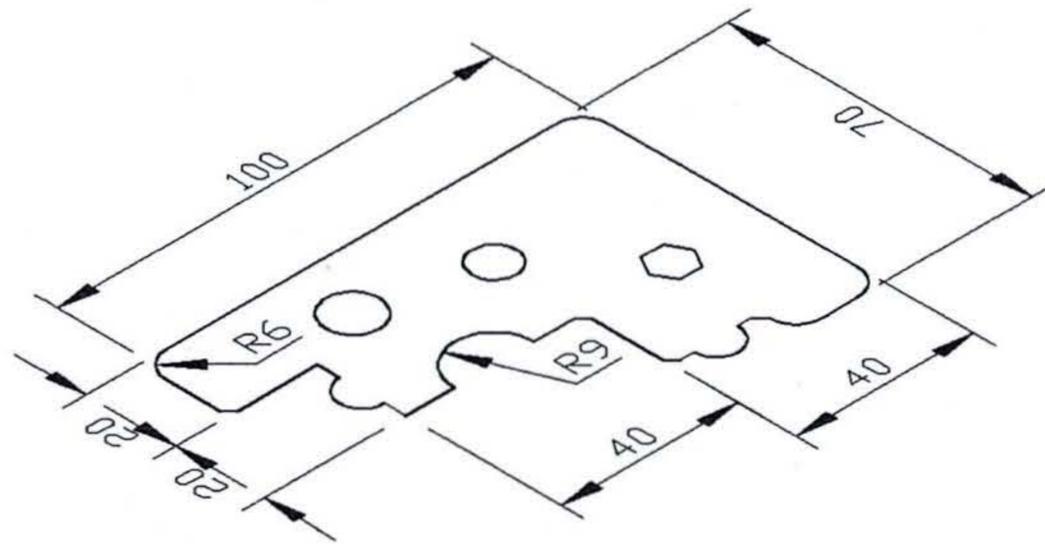
**Template**

Figure Q2

Locating Bracket



All Fillet = R6



Cross-section

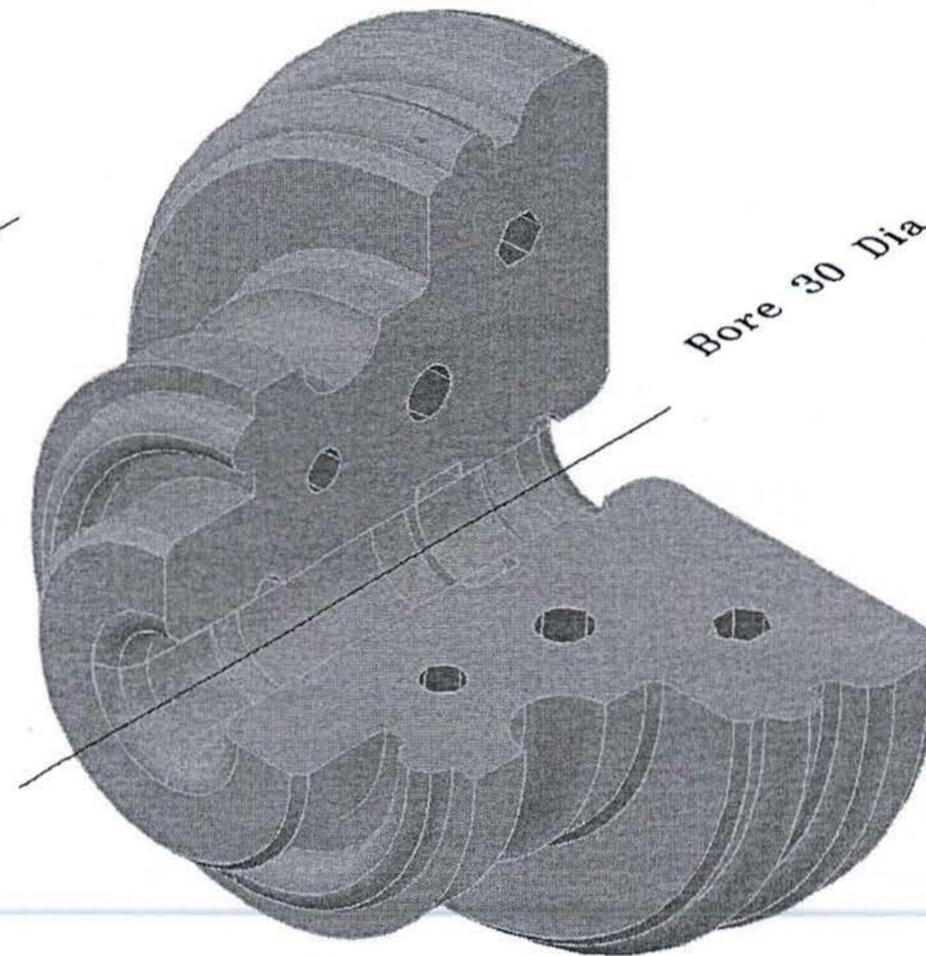


Figure Q3

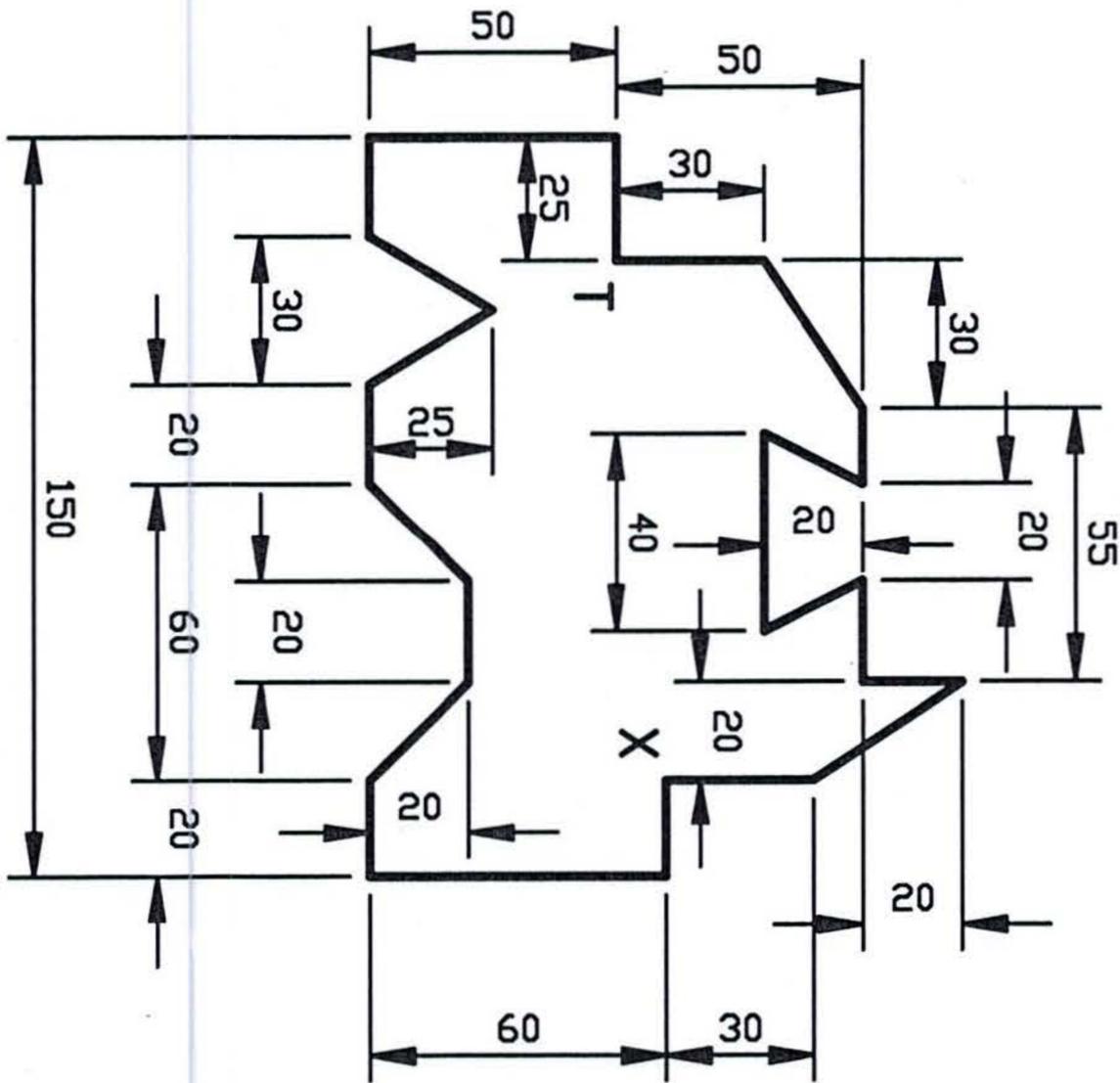
Bearing Component

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**Figure Q4**

**Tracing Plate**