



UNIVERSITY COLLEGE TATI (UC TATI)

FINAL EXAMINATION QUESTION BOOKLET	
COURSE CODE	: DTD 1013
COURSE	: TECHNICAL DRAWING (AUTOCAD)
SEMESTER/SESSION	: 1-2024/2025
DURATION	: 3 HOURS

Instructions:

1. This booklet contains **5** questions. Answer **ALL** questions.
2. All answers should be drawing in CAD File (.dwg).
3. Save your drawing files in to the created folder **22A1XXXX_FINAL_CADLABX_WSXX**. (20B0XXXX is your matrix number), (WSXX is your workstation number).
4. Write legibly and draw sketches wherever required.
5. If in doubt, raise your hands and ask the invigilator.

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO

THIS BOOKLET CONTAINS 6 PRINTED PAGES INCLUDING COVER PAGE

Instruction:

Please ensure that all the answers to be saved together in **only one CAD file** and located at the Desktop in a folder. The folder name is:
22A1XXXX_FINAL_CADLABX_WSXX.

All units are in millimeter (mm). Save drawing in CAD file (.dwg)

QUESTION 1

Reproduce the drawing as a Figure 1 as a standard:

- | | |
|----------------------|------------|
| a) Object line | (10 marks) |
| b) Construction line | (5 marks) |
| c) Dimensioning | (5 marks) |

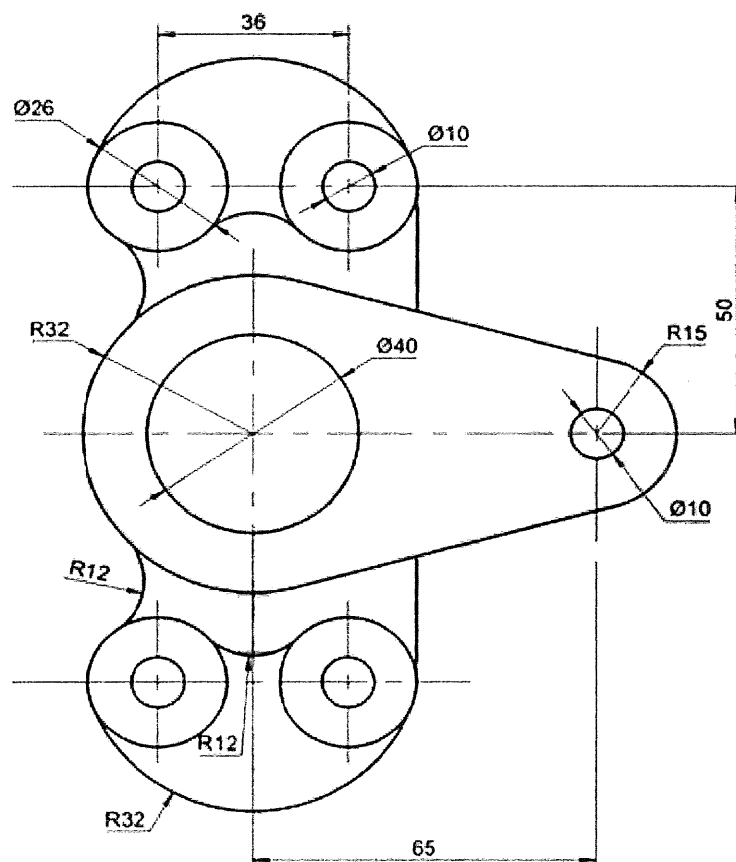


FIGURE 1

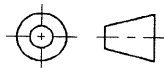
Reproduce the drawing as a Figure 2 as a standard:

- [illegible]

3

Figure 2 is an isometric view of a mechanical part. The part has a base plate with a width of 120 and a thickness of 20. The base plate has two circular holes, each with a diameter of $\varnothing 32$. The base plate is flanked by two vertical supports, each with a width of 80 and a height of 50. The top of the part features a central curved section with a radius of $2 \times R15$ and a width of 100. The top surface of the central section has a radius of $4 \times R10$. The top surface of the base plate has a radius of $2 \times R30$. The part is shown with a coordinate system (X, Y, Z) and a reference arrow pointing towards the top-left.

Figure 3 shows the isometric view of a part. **Construct** the part in full scale, using projection



- 4

QUESTION 4

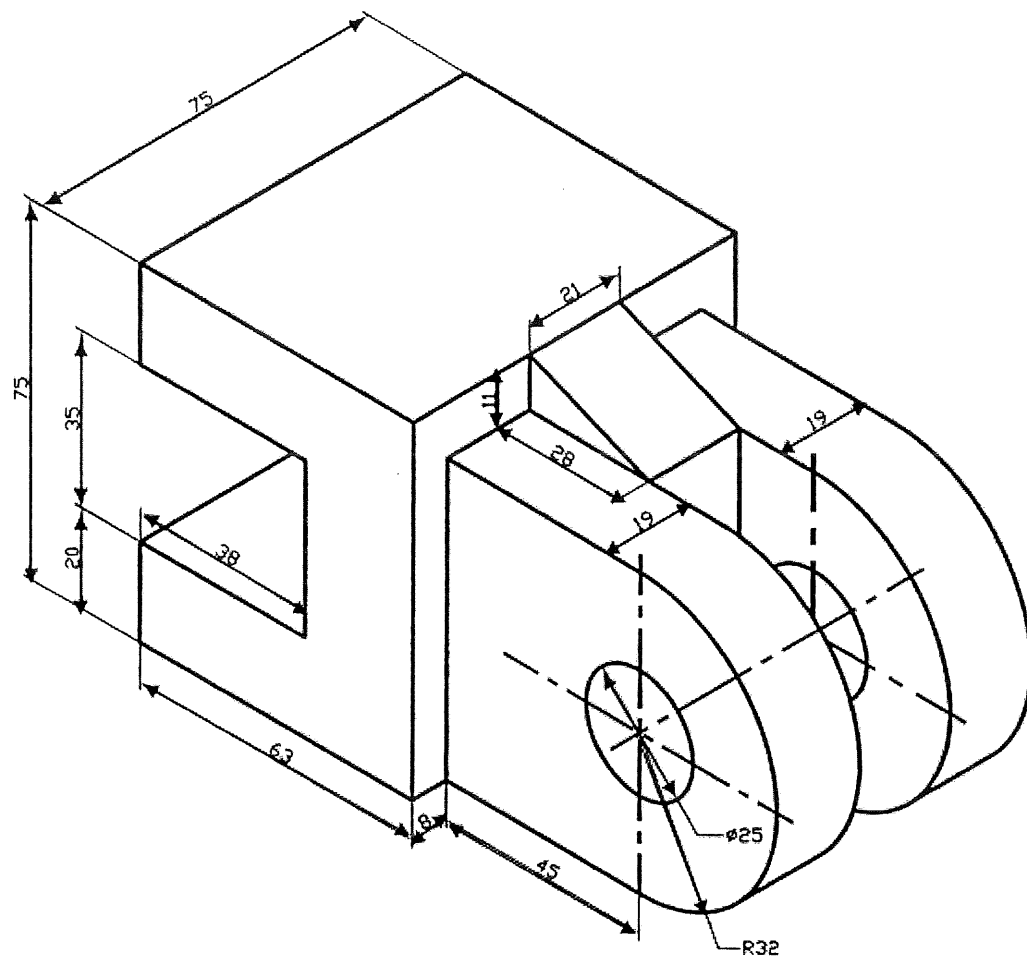


FIGURE 4

Figure 4 shows the isometric view of a part. **Illustrate** the part in full scale.

- Object (15 marks)
- Dimensioning (5 marks)

QUESTION 5

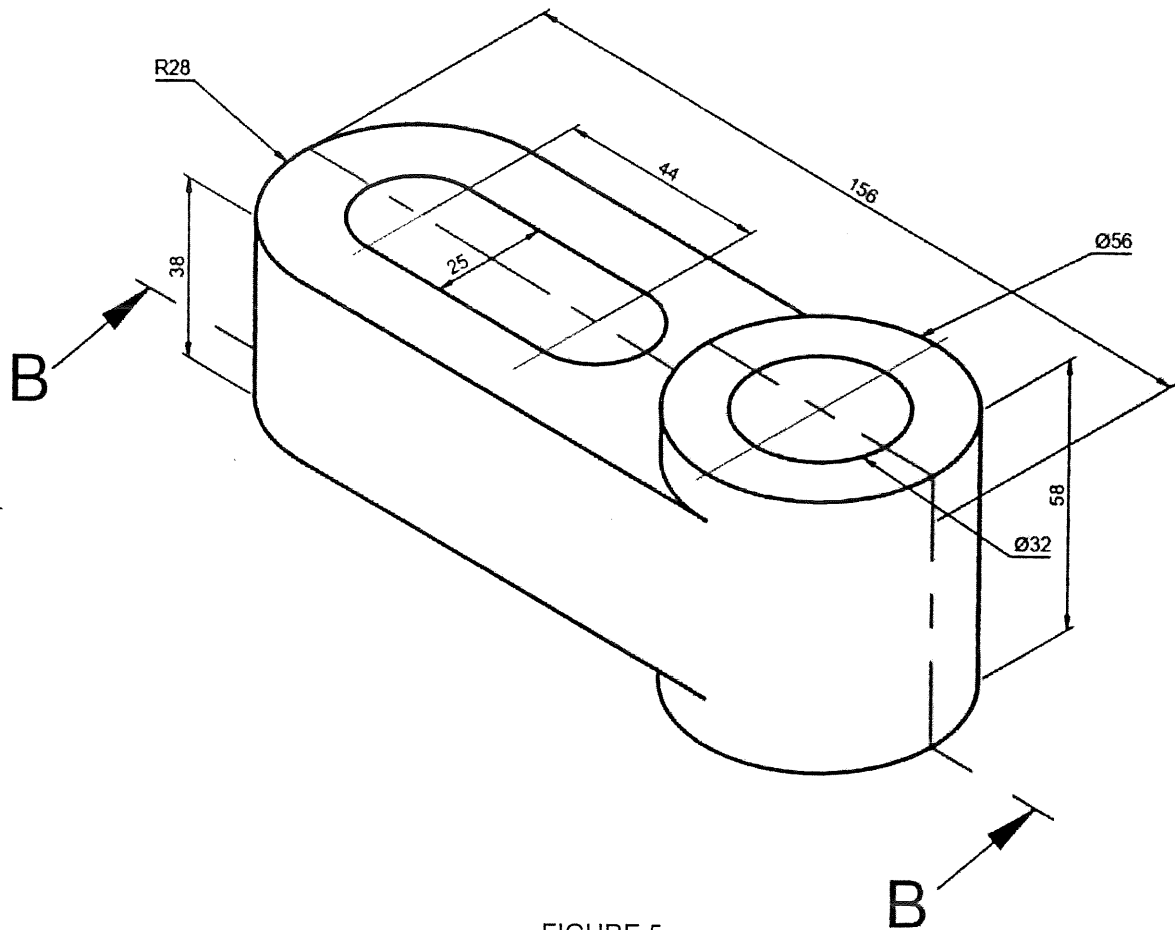
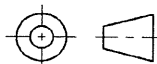


FIGURE 5

Figure 5 shows the isometric view of a part. **Construct** the part in full scale,

 using projection

- | | |
|--------------------------------|-----------|
| a. Front view from direction B | (5 marks) |
| b. Top view | (5 marks) |
| c. Right side view | (5 marks) |
| d. Dimensioning | (5 marks) |

-----End of questions-----

