UNIVERSITY COLLEGE TATI

UNIVERSITY COLLEGE TATI (UC TATI)

FINAL EXAMINATION QUESTION BOOKLET	
COURSE CODE	: FED 1013
COURSE	: ENGINEERING DRAWING
SEMESTER/SESSION	: 3-2023/2024
DURATION	: 3 HOURS

Instructions:

1. This booklet contains 2 sections. Answer **ALL** questions.
2. Write the answers in the provided answer booklet for **section A**. All answers should be drawn in the A4/A3 drawing sheet for **section B**.
3. Write legibly and draw sketches wherever required.
4. 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

SECTION A

QUESTION 1

a) **Describe** why engineering drawing is called the universal language of engineers. (2 marks)

b) **Give** two **(2)** purposes of sectional view. (2 marks)

c) **Illustrate** two (2) elements of engineering drawing. (4 marks)

d) **Describe** what is a "Layer" in AutoCAD. (2 marks)

e) Figure 1 shows an isometric drawing with two suggested directions for viewing the front view, from A or B. **Choose** the best side to draw a front view and **justify** your answer.

(4 marks)

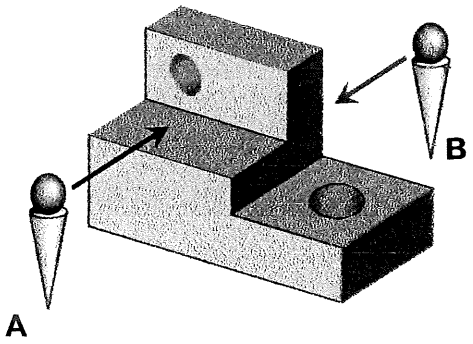

Figure 1

f) **Illustrate** the differences between an offset sectional view and a full sectional view.

(6 marks)

SECTION B

Instruction:
Please ensure that all the answers are drawn separately according to the question number. **All units are in mm.**

QUESTION 2

a) **Reproduce** Figure 2.

i. Object line (10 marks)

ii. Construction line (5 marks)

iii. Dimensioning (5 marks)

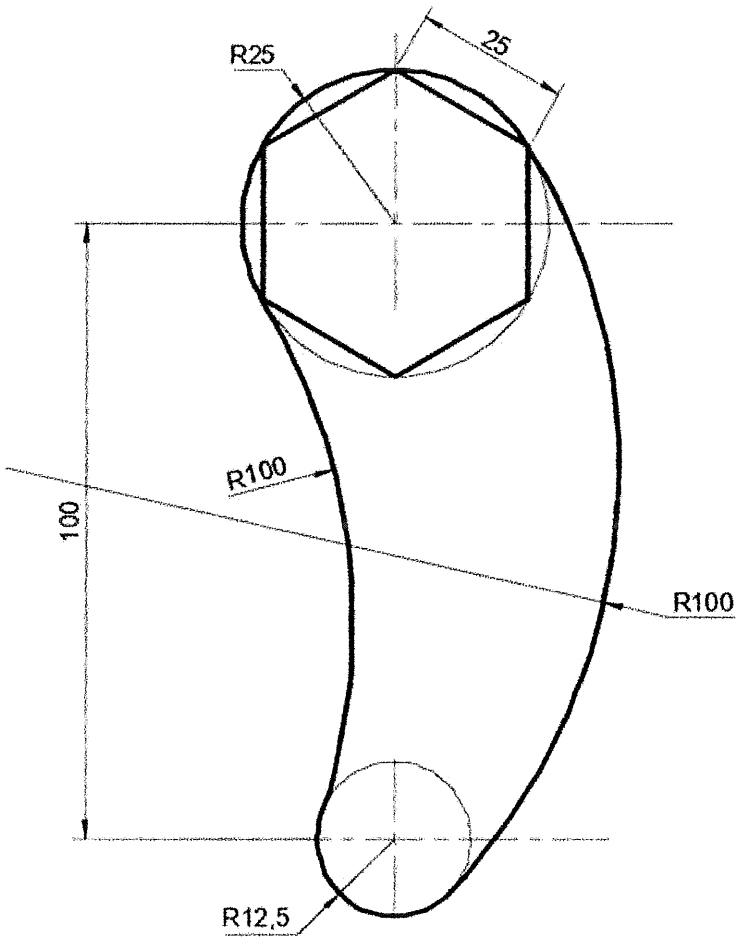

Figure 2

QUESTION 3

a) Figure 3 shows the isometric view of a part. **Construct** the part in full scale, using 1st angle projection.

i. Front view (5 marks)

ii. Top view (5 marks)

iii. Right Side view (5 marks)

iv. Dimensioning (5 marks)

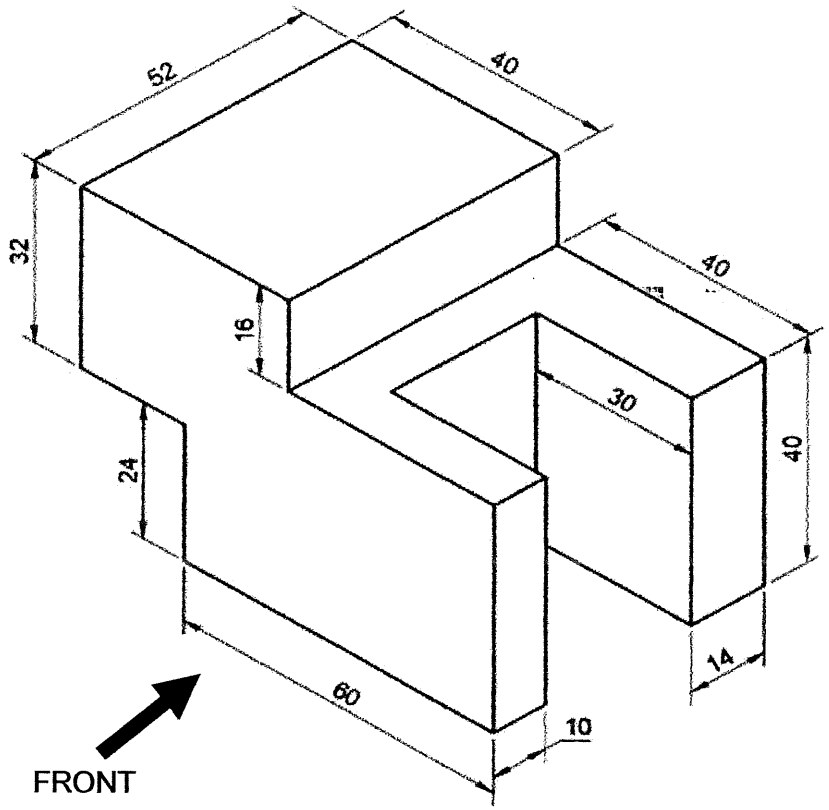

Figure 3

QUESTION 4

a) Figure 4 shows an isometric view of a part. **Reproduce** the part in full scale.

i. Isometric object (10 marks)

ii. Construction line (5 marks)

iii. Dimensioning (5 marks)

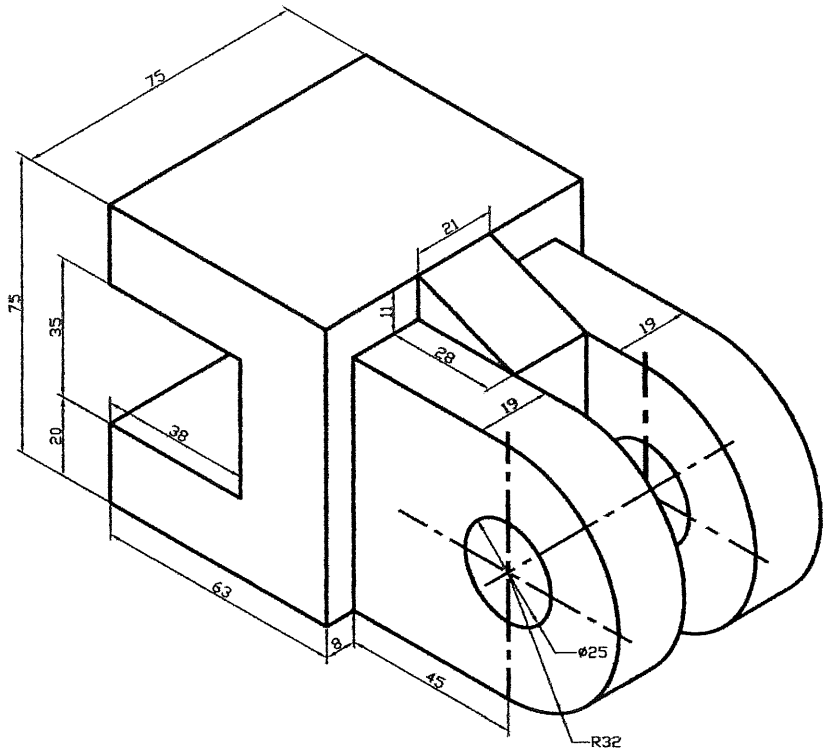

Figure 4

QUESTION 5

a) Figure 5 shows an isometric drawing of one part. **Construct** a sectional front view from X-X.

i. Front sectional view from X-X (15 marks)

ii. Dimensioning (5 marks)

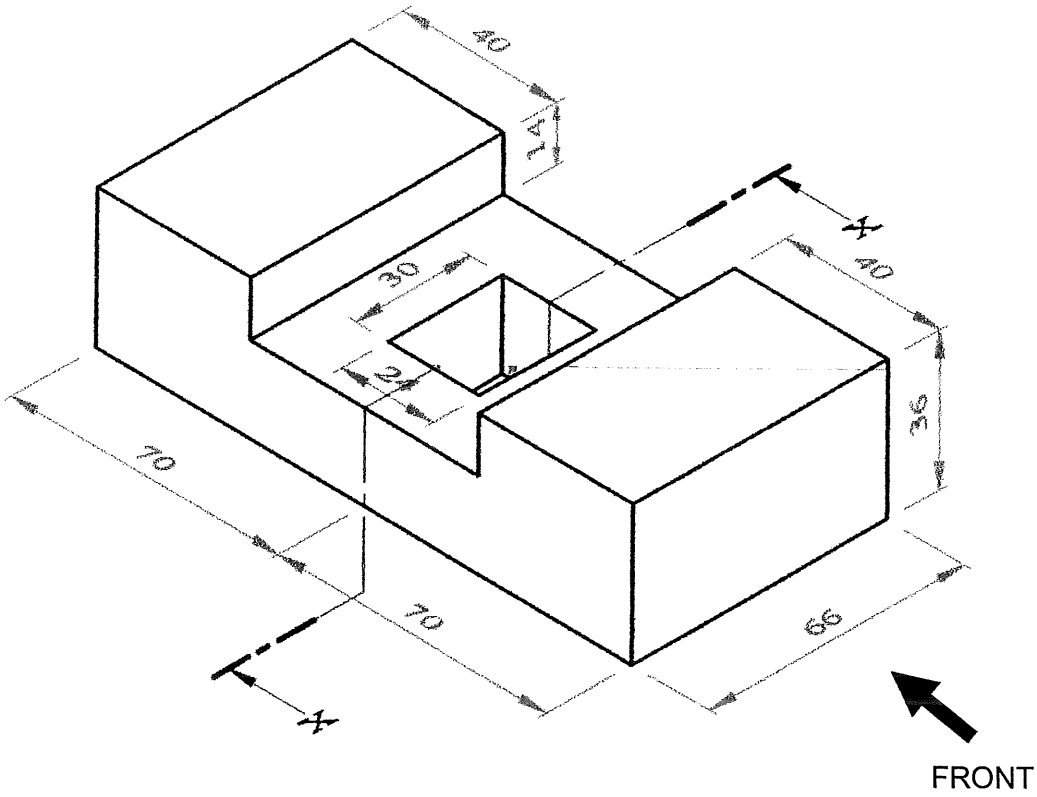

Figure 5

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