

BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF SCIENCE AND ENGINEERING

DEPARTMENT OF ENGINEERING AND PHYSICS

01 OCT 2024

PROGRAMME

Bachelor of Science (Honours) Degree in Agricultural Engineering

Bachelor of Science (Honours) Degree in Electronic Engineering

COURSE CODE (s) END 1102 (2): ENGINEERING DRAWING

DURATION: 4 hours

TOTAL MARKS: 100

INSTRUCTIONS TO CANDIDATES

1. This paper contains 5 questions. Each question carries 25 marks.
2. Answer all question in section A and two questions in section B.
3. All the drawings must be drawn on A3 or A4 drawing paper and choose an appropriate scale for the drawings.
4. All dimensions are in millimeters.

Section A: answer all questions.

Question 1.

- a. State two essential aspects that a good drawing must meet.
- b. Mention three types of technical drawing.

[10 marks]

[15 marks]

Question 2.

Fig. Q2 shows a machine component, draw using the first angle projection:

- a. The sectional view from the front with dimensioning and, [15 marks]
b. The top view with dimensioning. [10 marks]

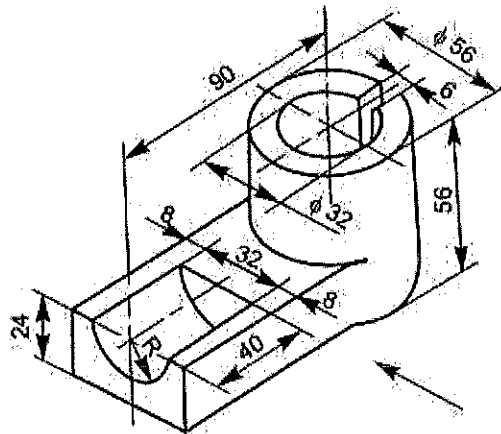


Fig. Q2.

Section B: answer two questions.

Question 3.

Build up a sectioned assembly drawing of the component parts shown in Fig. Q3, looking on cutting plane CC to obtain a sectional front view by tracing over and correctly positioning each piece:

[25 marks]

Part list:

Nr.	Name	Quantity
1	Hexagonal headed bolt	1
2	Nut	1
3	Separator	1
4	Housing	1

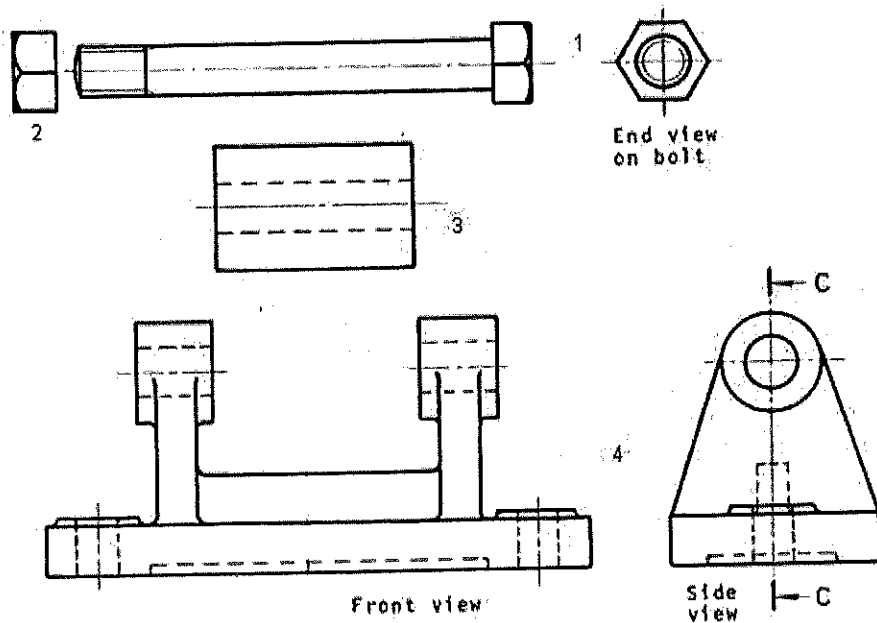


Fig. Q3.

Question 4.

Draw and dimension the drawing shown in Fig. Q4:

[25 marks]

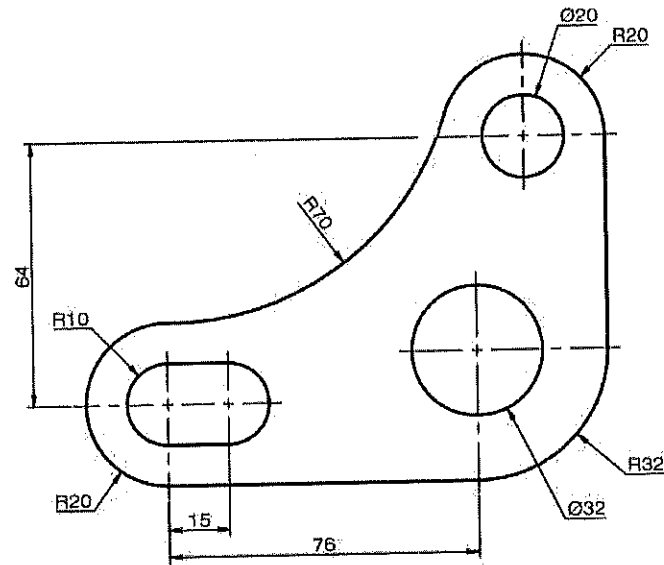


Fig. Q4.

Question 5.

Draw the isometric projection of the object shown in Fig. Q5.

[25 marks]

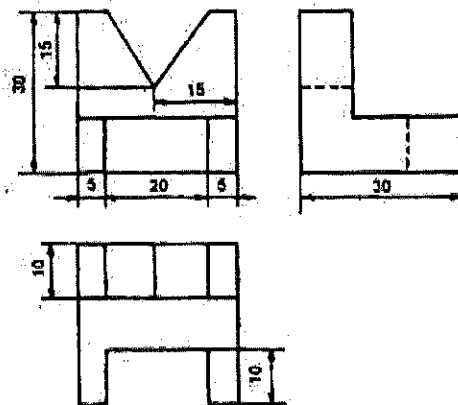


Fig. Q5.