GENERAL SIR JOHN KOTELAWALA DEFENCE UNIVERSITY
Faculty of Engineering
Department of Mechanical Engineering

BSc Engineering Degree
Semester 1 (2nd Batch) Examination – July 2022
Intake 39 – Engineering

ME 1112 ENGINEERING DRAWING

Time allowed: 3 hours 27th July, 2022

INSTRUCTIONS TO CANDIDATES

This paper contains 3 questions on 6 pages.

Answer Question 01 and ONE other question.

Question No.1 should be answered on one complete side of the drawing paper.

Use both sides of the paper.

All construction lines must be clearly shown.

This is a closed book examination.

This examination accounts for 80% of the module assessment. A total maximum mark obtainable is 100. The marks assigned for each question and parts thereof are indicated in square brackets.

If you have any doubt as to the interpretation of the wordings of a question, make your own decision, but clearly state it on the script.

Assume reasonable values for any data not given in or provided with the question paper, clearly make such assumptions made in the script.

All examinations are conducted under the rules and regulations of the KDU.

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Question 01 (70 Marks)

Figure 1 shows two views of a HOUSING. Draw to a scale of full size in First Angle Projection the following views.

a. Half Sectional Front Elevation on X - X. (Draw right half in Section) [25 Marks]

b. An End Elevation projected to the right of view "a" [15 Marks]

c. Plan projected from view "a" [15 Marks]

Note :- Print the Main Title "HOUSING", Sub Titles, Scale and give the Symbol of Projection and dimension the drawing. [15 marks]

All dimensions and small radii not given may be estimated.

Question 02 (30 Marks)

Figure 2 shows Front Elevation and Plan of an Object. Draw the Isometric View of the Object as seen in the direction of the arrows.

All construction lines must be clearly shown.

Question 03 (30 Marks)

Figure 3 shows two views of a Square Pyramid made out of thin sheet of metal. The Square Pyramid is cut by a plane, with the top portion removed.

Assume seam at C – C and draw to a scale of full size the following views:

a. The Front Elevation

b. The Plan

c. Development of the Square Pyramid.

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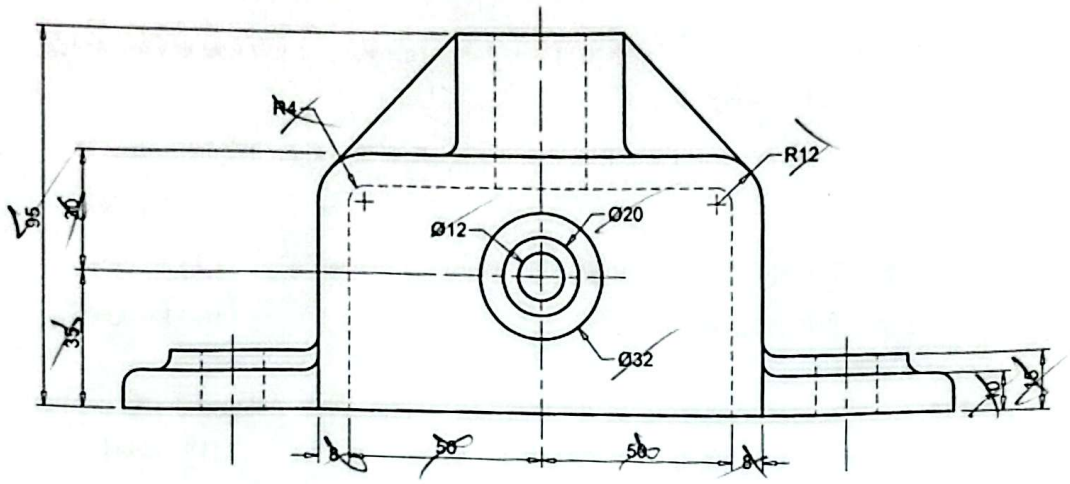
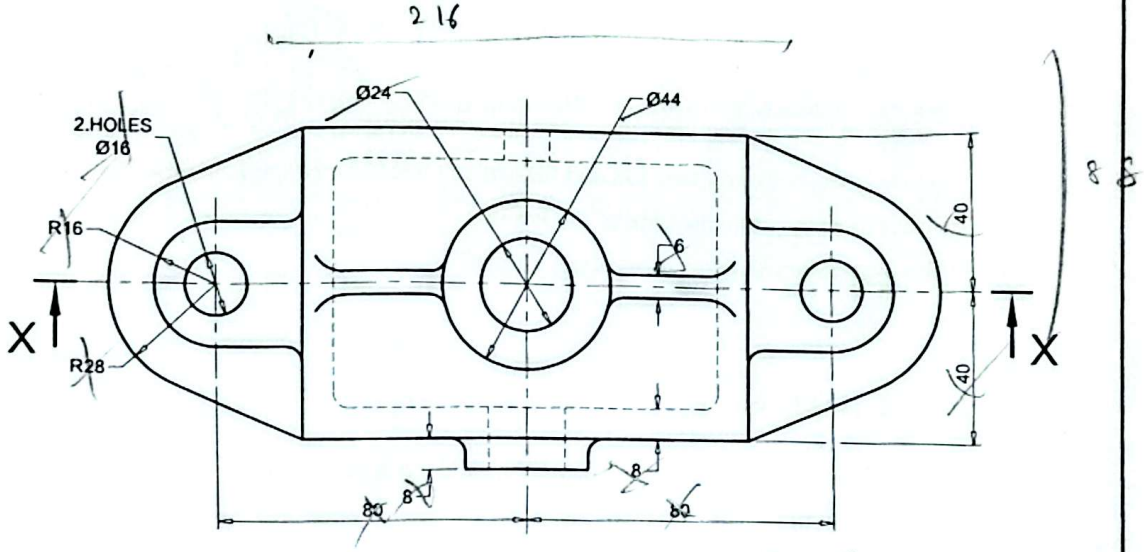


FRONT ELEVATION



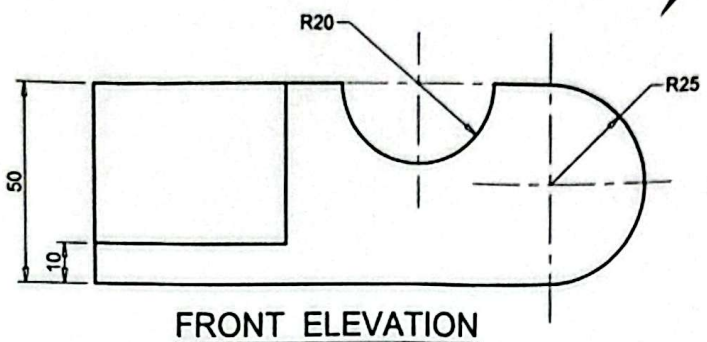
PLAN

FIGURE 1

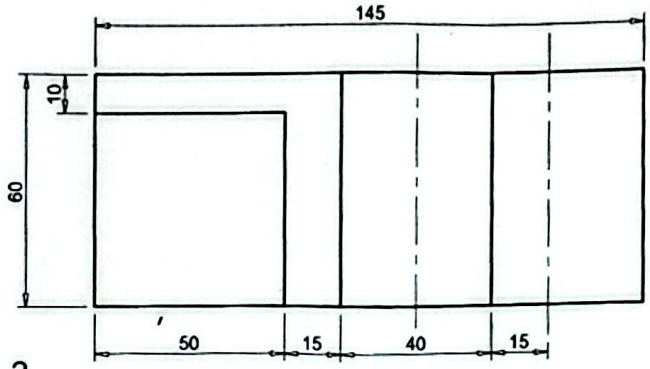
DIMENSIONS IN MILLIMETRES
CASTING CURVE RADII 4 MM

HOUSING

SIR JOHN KOTELAWALA DEFENCE UNIVERSITY B. Sc. ENGINEERING DEGREE SEMESTER 1 (2nd BATCH) EXAMINATION - JULY 2022 INTAKE 39 - ENGINEERING	ME 1112 - ENGINEERING DRAWING

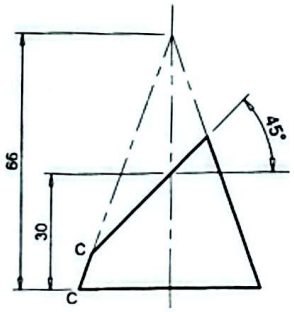


FRONT ELEVATION

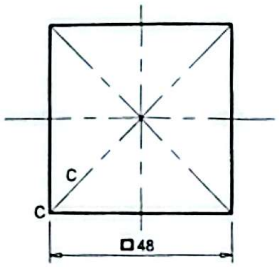


PLAN

FIGURE 2



FRONT ELEVATION



INCOMPLETE PLAN

FIGURE 3

DIMENSIONS IN MILLIMETRES

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