



(The University of choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

**UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR**

**YEAR ONE SECOND SEMESTER EXAMINATIONS
(Main examination)**

BACHELOR OF SCIENCE FOOD SCIENCE AND TECHNOLOGY

COURSE CODE: AET 100

COURSE TITLE: Technical Drawing

DATE: 23RD April, 2024

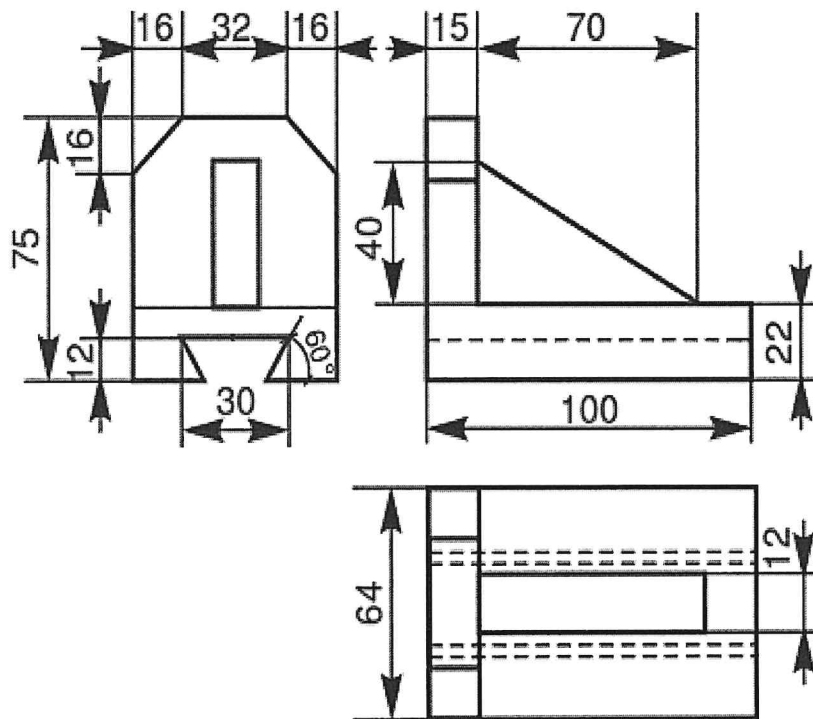
TIME: 8:00 AM-10AM

Instructions:

- This paper consists of **5** questions
- Section **A** is **compulsory**, Answer any **2** questions from **Section B**
- Observe the regulations governing clean drawing production

SECTION A (20 marks)

1. (a) Give the different types of lines used in the preparation of a technical drawing and their functions **(3 marks)**
 - (b) Distinguish, giving their respective symbols between first and third angle projection **(2 marks)**
 - (c) On the same drawing,
 - (i) Construct an equilateral triangle and a hexagon of side of side 7cm.
 - (ii) Circumscribe a circle on both figures and give the radii of both circles. **(5 marks)**
2. Using proper line work and to a scale of 1:1, produce an isometric drawing of Figure 1. **(10 marks)**



SECTION B (20 marks)

3. Using proper line work and to a scale of 1:1, Draw figure 2, observing all the drawing regulations

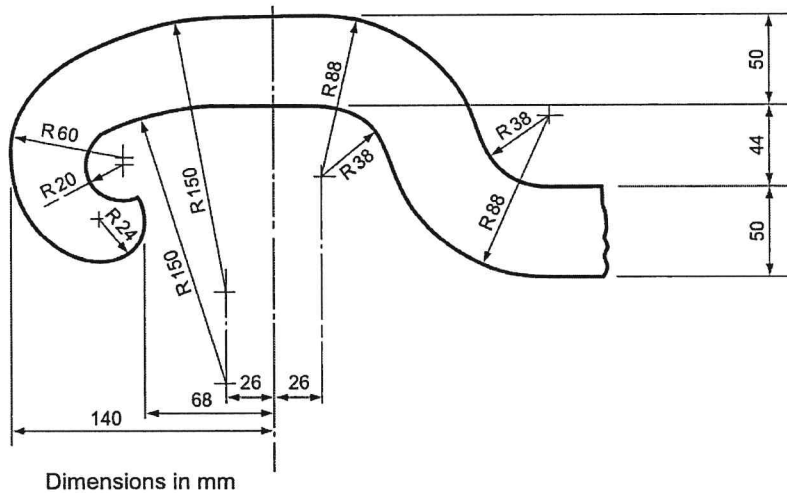


Figure 2

4. The figure 3 shows details of a cast concrete block. Draw the following, in 3rd angle projection:
- The two given views.
 - An EE looking in the direction of the arrow *K*. (10 marks)

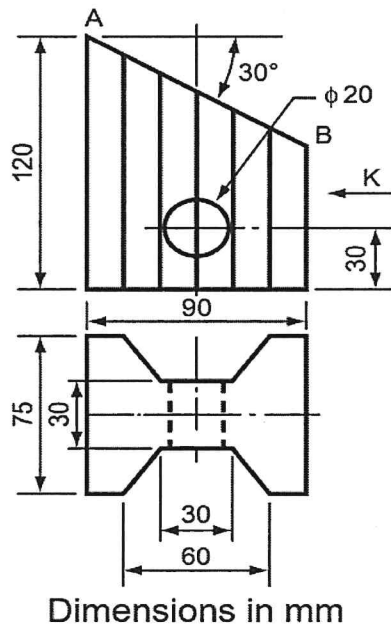


Figure 3

5. A small scoop is to be made to the dimensions given in the elevation, Figure 4. Draw the development of the shape of the metal required for the body of the scoop with the joint on AB. Ignore the thickness of the metal and do not allow for any overlap. **(10 marks)**

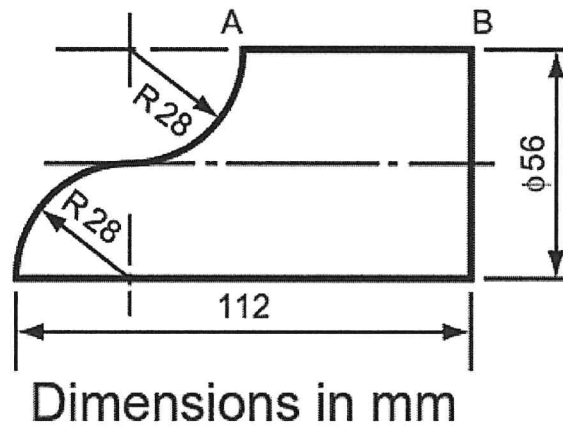


Figure 4