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(University of Choice)

# MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

## UNIVERSITY EXAMINATIONS

## 2023/2024 ACADEMIC YEAR
## FIRST YEAR SECOND SEMESTER EXAMINATIONS

## FOR THE DEGREE
## OF
## BACHELOR OF TECHNOLOGY EDUCATION

**COURSE CODE:** TEC 104

**COURSE TITLE:** TECHNICAL DRAWING II

**DATE:** 19/04/2024 **TIME:** 8.00- 10.00AM

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**INSTRUCTIONS**

- Answer questions 1,2 and any other **one** question.
- All dimensions are in mm unless otherwise stated.

**Time : 3 hours.**

MMUST observes ZERO tolerance to examination cheating

## QUESTION ONE

Front and plan of a hexagonal frustum with square blind hole are shown in fig. Q1. Copy the views and then draw the projections of the solid if the solid is tilted about corner **4** so that the base is at $30^0$ to the horizontal plane and at the same time the edge **2-3** is rotated anticlockwise so that it makes an angle of $30^0$ to the vertical plane. ( 40 marks)

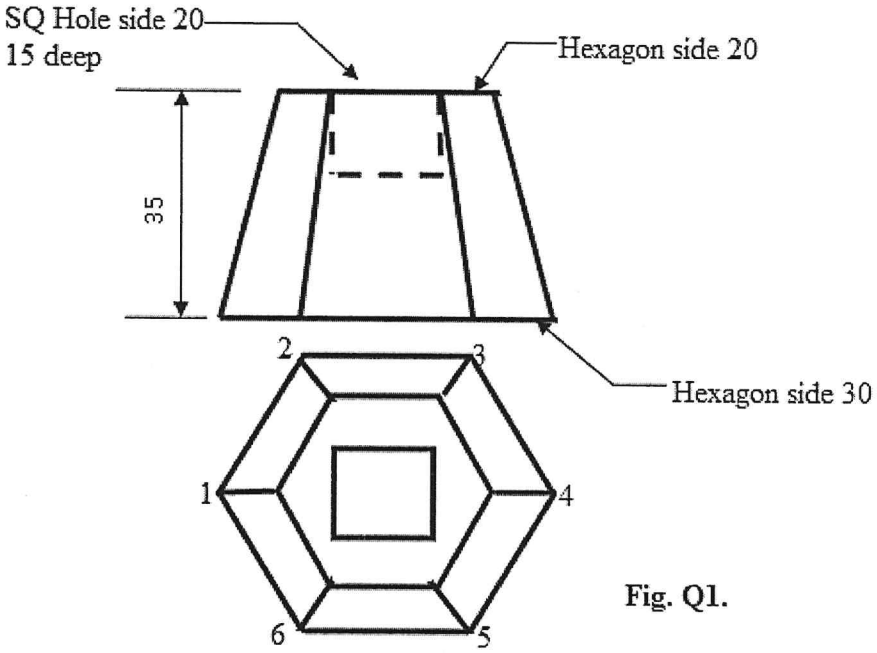



**Fig. Q1.**

## QUESTION TWO

Fig Q2 shows views of a shaped block, draw the block in cabinet oblique projection with face **A** at the fore front and receding towards the left. (25 marks)

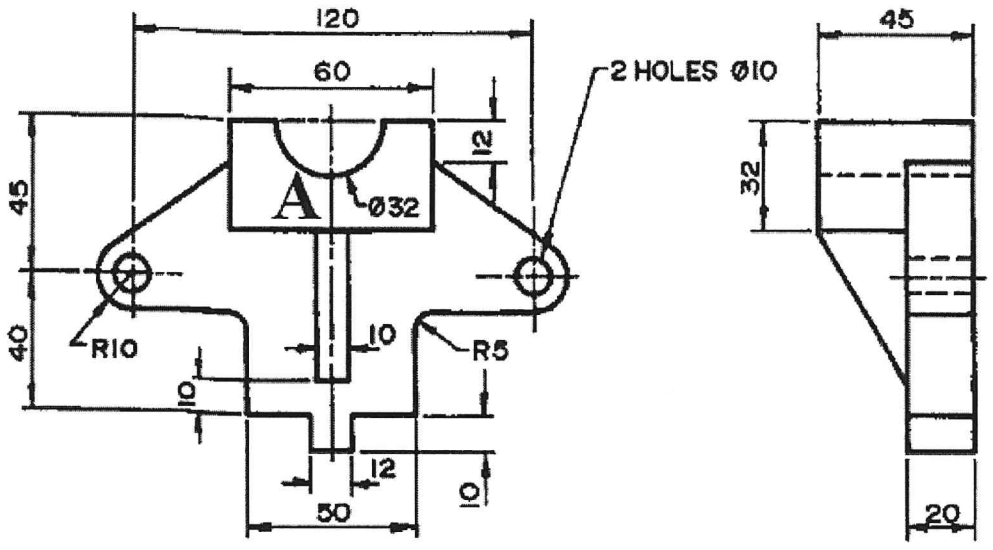



Fig Q2

**QUESTION THREE**

FigQ3 shows incomplete front elevation and plan of a dust extraction duct sheet metal fabrication. Complete

- The front and plan elevations
- Draw the surface development of the transition piece.

Take that the height of transitional piece is 60 (15 marks)

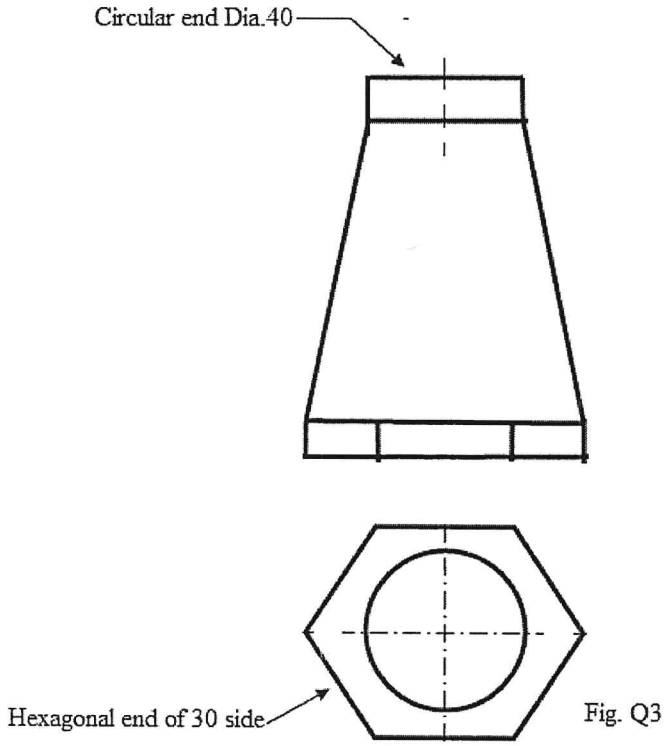



Fig. Q3

**QUESTION FOUR**

In Fig Q4 below, rollers **1** and **2** are attached to the angled rod. Roller 1 slides along slot **A-B** while roller **2** slides along **C-D** and back. Using a line diagram, draw full size, the locus of P when the roller **1** from **A** to **B**. (15 marks)

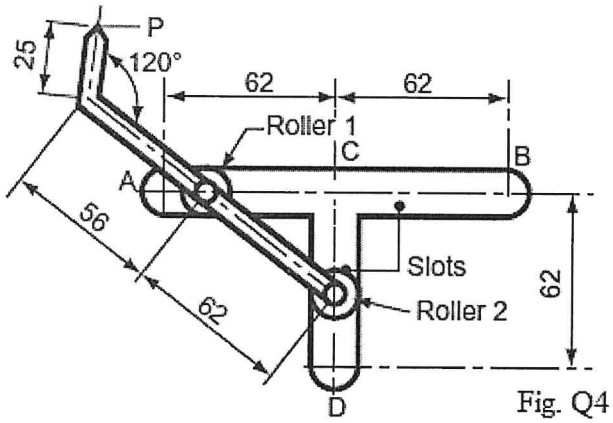



Fig. Q4