



TECHNICAL UNIVERSITY OF MOMBASA

SCHOOL OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF BUILDING & CIVIL ENGINEERING
UNIVERSITY EXAMINATION FOR:

DIPLOMA IN CIVIL ENGINEERING
DCE 2105 TECHNICAL DRAWING II

SPECIAL/SUPPLEMENTARY EXAMINATION
SERIES: JULY 2025
TIME: 2 HOURS

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

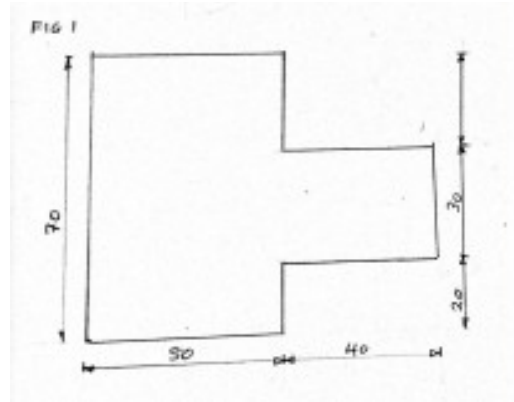
-Drawing instrument

This paper consists of **five** questions. Attempt any **THREE** questions.

Do not write on the question paper.

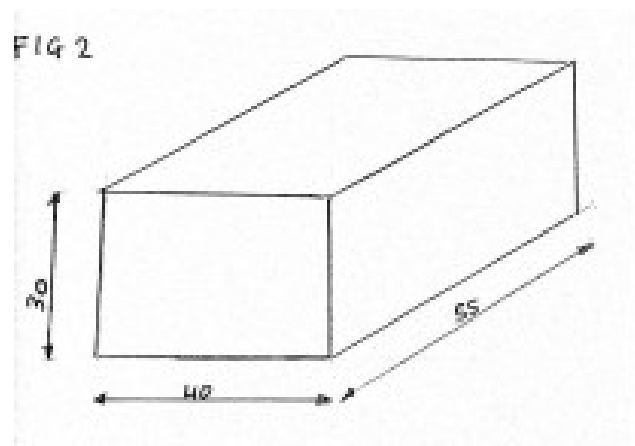
QUESTION ONE (20 Marks)

FIG1 shows two pipes joined perpendicular to each other. draw the diagram showing the intersection line (10 Marks)



b, Draw FIG 2 in two-point perspective given the following
 Height from ground level to vanishing point is 75mm
 The distance between the vanishing points is 120mm

(10 Marks)



QUESTION TWO (20 Marks)

A hexagon pyramid whose base is 60mm and an axis of 80mm long is resting on its H.P such that a perpendicular face parallel to the V.P. It is cut by a section plane perpendicular to V.P and inclined at 30° to H.P. Draw the following

- The plan
- True shape
- Development of the surface

(20 Marks)

QUESTION THREE (20 Marks)

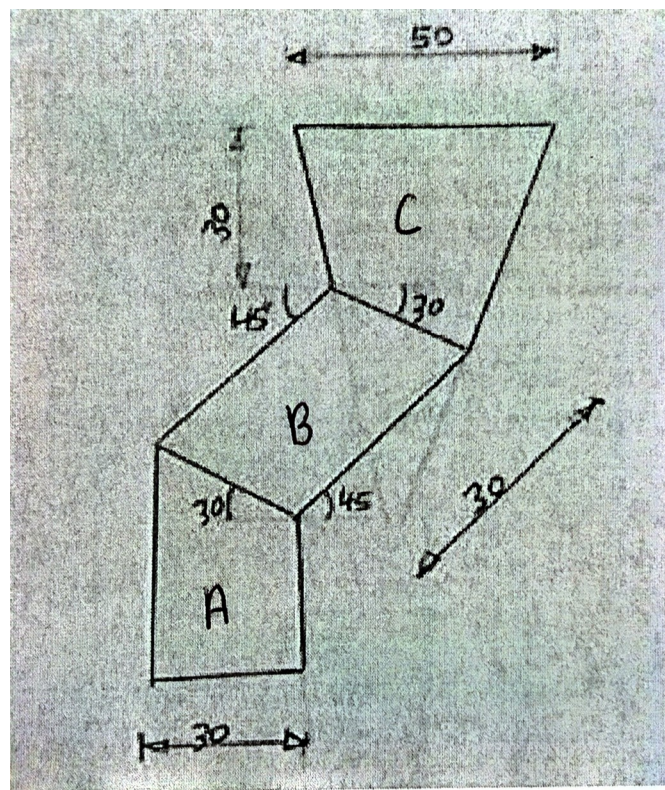
A cone of base 50mm diameter and a height of 60mm rests on H.P and bisects the axis of the cone at a height of 25mm and a 35° to the H.P. draw the following

- i) The true shape
- ii) The plan
- iii) Development

(20 Marks)

QUESTION FOUR (20 Marks)

The figure below shows a funnel consisting of a conical part C and two cylindrical pipes A and B all truncated. Draw the developments of Part A, B and C. (20 Marks)



QUESTION FIVE (20 Marks)

Show the intersection points of the figure below and its surface development.

(20

Marks)

