



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

END OF SEMESTER EXAMINATION
SERIES: APRIL 2025
TIME: 3 HOURS

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

Drawing instruments

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

Do not write on the question paper.

QUESTION ONE (20 Marks)

A truncated cone with a base diameter of 60mm is truncated at a slope of 30° to horizontal and at a height of 25mm. the height of a cone is 50mm. Draw the figure and show the following

- i) Front elevation
- ii) Plan view
- iii) Surface development of the cone
- iv) Auxiliary view

(20 Marks)

QUESTION TWO (20 Marks)

A hexagonal pyramid whose diameter is 45mm and 70mm height is truncated at 30° to horizontal at a height of 30mm from the base. Draw the figure and show the following.

- i) Front elevation
- ii) The plan

- iii) Surface development of the pyramid
- iv) The auxiliary view (20 Marks)

QUESTION THREE (20 Marks)

Fig.1 shows two cylinders A and B, one cylinder of 20mm diameter is attached to a vertical cylinder at 30° . Draw the intersection points where the small cylinders are joint to main cylinder and development of cylinder A. (20 Marks)

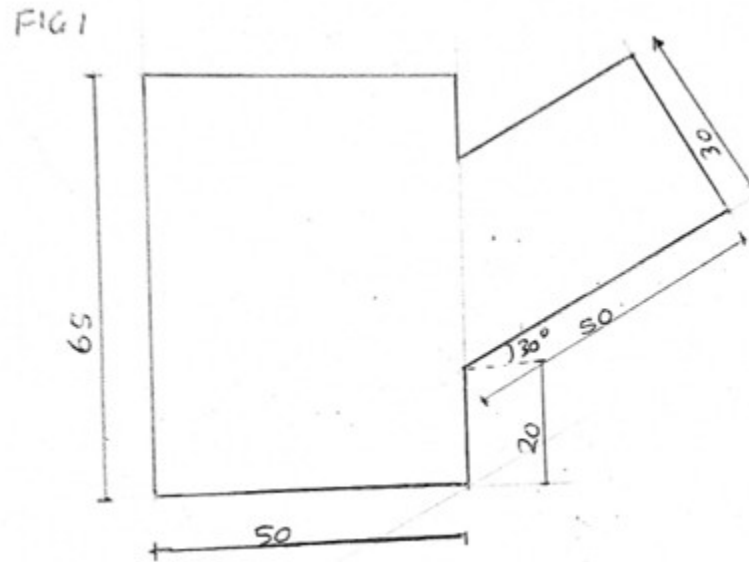
QUESTION FOUR (20 Marks)

Draw figure 2 below in two-point perspective given the following information

- i) Distance between the two vanishing points is 160 mm
- ii) Height of vanishing point from ground level is 100mm (20 Marks)

QUESTION FIVE (20Marks)

Fig. 3 shows the bend of a water pie joined at an angle. Draw the developments of part A, B and C. (20 Marks)



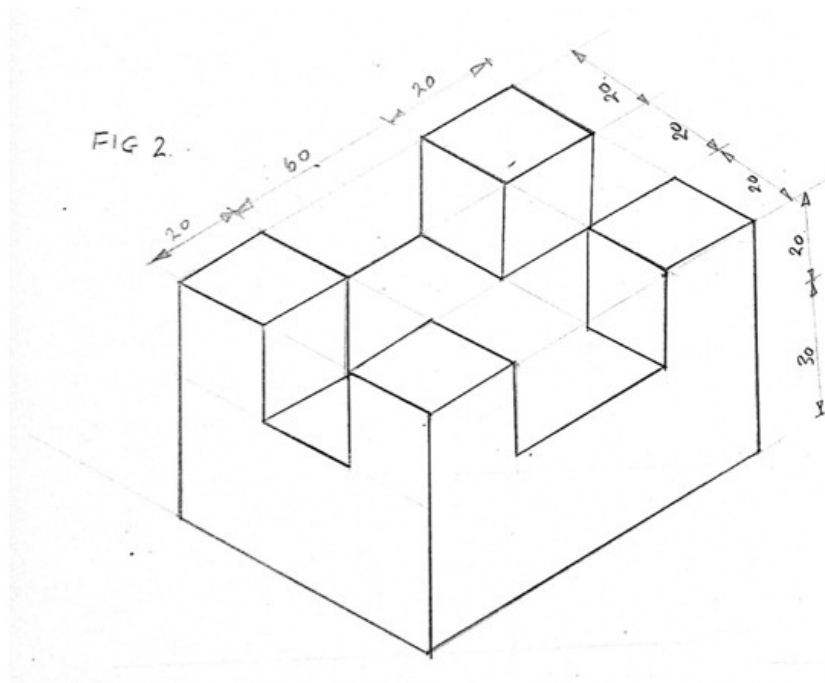


Fig3

