# MACHAKOS UNIVERSITY 

University Examinations for 2021/2022 Academic Year
SCHOOL OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF BUILDING AND CIVIL ENGINEERING
SECOND YEAR SPECIAL / SUPPLEMENTARY EXAMINATION FOR
BACHELOR OF SCIENCE (CIVIL ENGINEERING)
ECV 200: ENGINEERING DRAWING II
DATE: 30/8/2022
TIME: 2.00-4.00 PM

## INSTRUCTIONS:

- This paper comprises of four questions. Answer two questions
- Question one is compulsory and carry 30 marks
- Answer any other one questions

QUESTION ONE (30 MARKS)
a) Draw the oblique projection of the following views


Figure 1
b) From the views given in figure 2, draw the isometric projection marks)


Figure 2
c) Draw the projections of a cube of 35 mm side, resting on one of its faces (bases) on Horizontal Plane, such that one of its vertical faces is parallel to and 10 mm in front of Vertical Plane. marks)

## QUESTION TWO (20 MARKS)

A vertical square prism, base 50 mm , is completely penetrated by a horizontal square prism, base 35 mm side, so that their axes intersect. The axis of the horizontal prism is parallel to the prism, while the faces of the two prisms are equally inclined to the prism. Draw the projections of the solids, showing lines of intersection. Assume suitable lengths for the prisms.

QUESTION THREE (20 MARKS)
Draw the development of a square prism of side of base 30 mm and height 50 mm .

## QUESTION FOUR (20 MARKS)

A right regular pentagonal prism, side of base 30 mm and height of axis as 75 mm rests on Horizontal plane on one of its base corners such that its long edge containing the corner is inclined to the Horizontal Plane at $60^{\circ}$. Draw its projections.

