



MACHAKOS UNIVERSITY

University Examination 2019/2020

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

SECOND YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

ECV 200: ENGINEERING DRAWING II

DATE: 10/12/2019

TIME: 8.30-10.30 AM

INSTRUCTIONS

Answer Question One and Any Other Two Questions

QUESTION ONE (30 MARKS)

- a) Draw the Front view, left End view and Plan view in first angle orthographic projection of figure 1 (ignore dimensions) (10 marks)

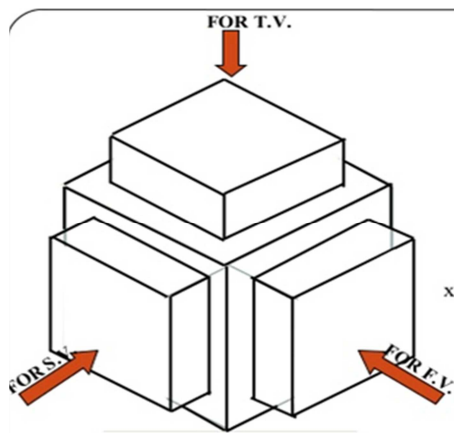


Fig.1

- b) Draw in oblique projection (30°), a cube of 40mm (10 marks)
- c) Sketch the front elevation and plan for the two dissimilar square prisms meeting at right angles in fig. (10 marks)

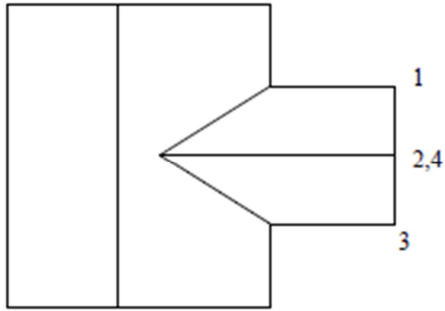


Fig.2

QUESTION TWO (20 MARKS)

A vertical square prism, base 50mm side, is completely penetrated by a horizontal square prism, base 35mm 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 solids, showing lines of intersection. (Assume suitable lengths for the prisms)

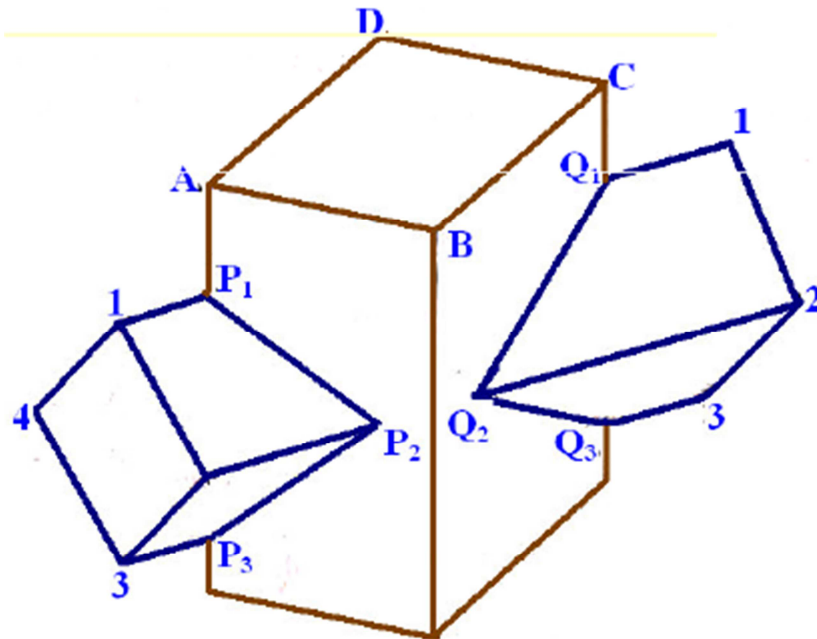


Fig.3

QUESTION THREE (20 MARKS)

Draw front view, left side view and top views of fig by first angle orthographic projection

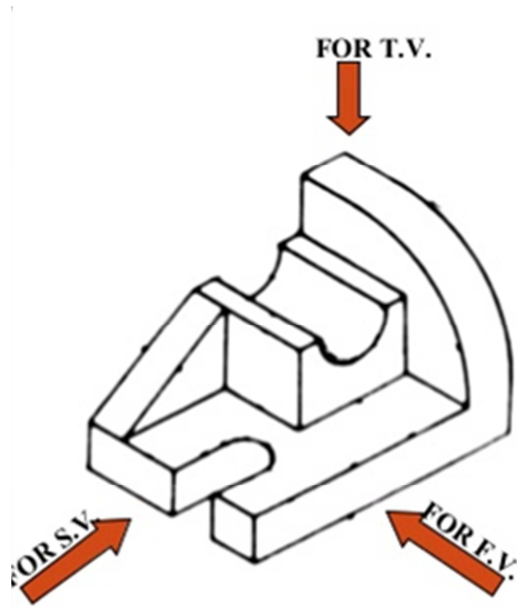


Fig. 4

QUESTION FOUR (20 MARKS)

Sketch in 30° oblique projection of figure 5

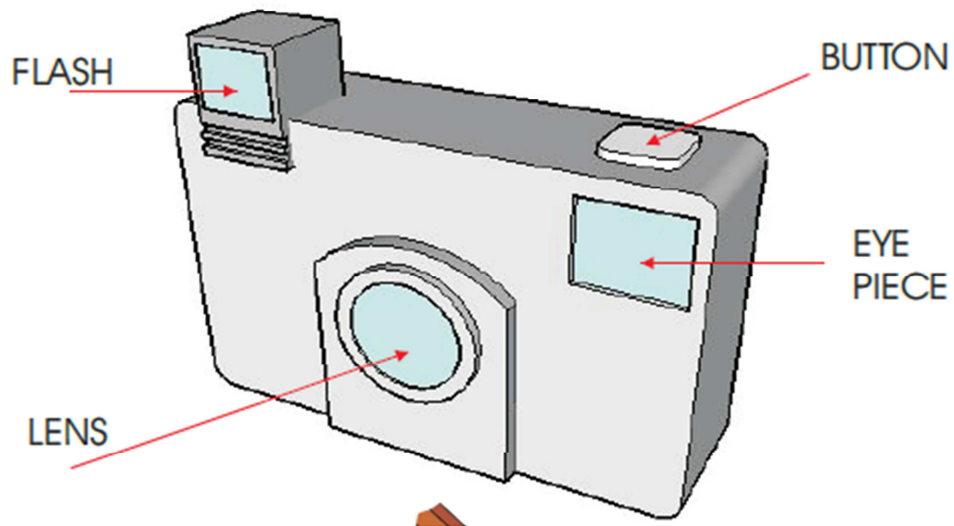


Fig. 5

QUESTION FIVE (20 MARKS)

Assemble the views in fig. using isometric projection

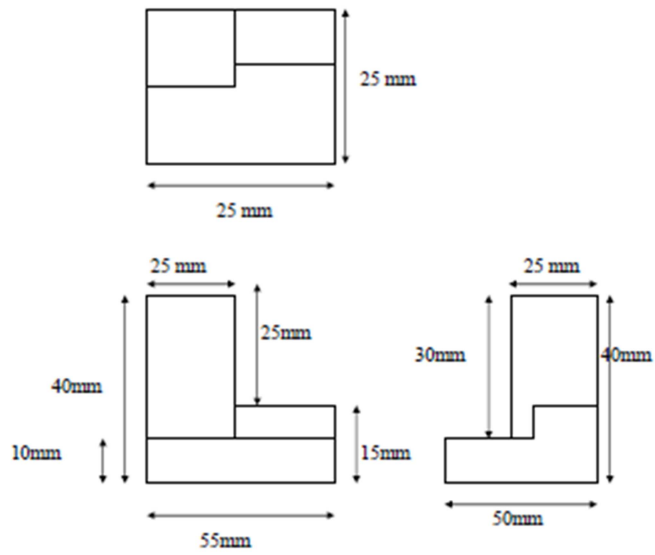


Fig 6