



MACHAKOS UNIVERSITY

University Examinations for 2020/2021

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

SECOND YEAR FIRST SEMESTER EXAMINATION FOR

DIPLOMA IN ELECTRICAL ENGINEERING MODULE 2

ENGINEERING DRAWING

DATE: 1/9/2021

TIME: 2:30 – 5:30 PM

Instructions:

- i. Attempt the following FIVE questions
 - ii. All dimensions are in millimeters
1. Figure one shows a representation of a First angle projection, draw an **isometric** drawing of the same (20 marks)
 2. Fig 2 shows a mechanism that consists of a crank **AB** which rotates about centre **A**, an arm **CD** which is pin jointed at **D** and a link **BC** which connects the crank and the arm. Plot the locus traced by the mid point P of link **BC** for one complete revolution of crank **AB** (20 marks)
 3. A pictorial view of a mounting block is shown in Fig. 3. Draw the following views in 1st angle projection:
 - (i) Front elevation from the direction of arrow A
 - (ii) Left end elevation
 - (iii) Plan(20 marks)
 4. Figure 4 shows an isometric drawing of a machine block. Draw full size in third angle projection the following views showing all hidden details and any six important dimensions
 - i. Front elevation from the direction shown
 - ii. End elevation
 - iii. Plan(20 marks)

Fig. 3

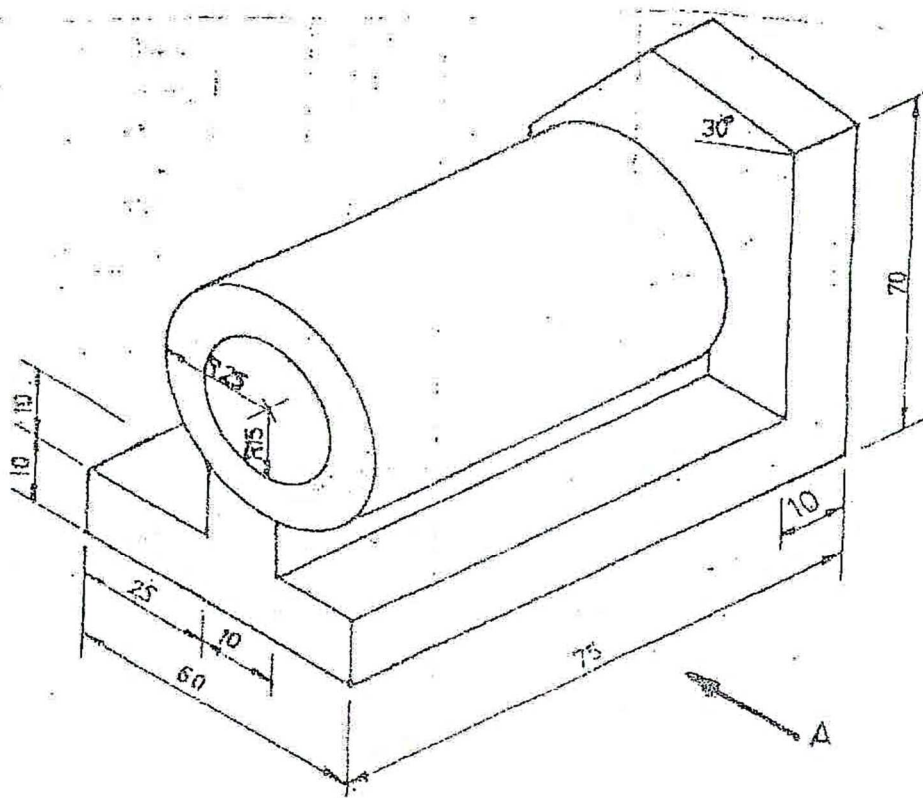


Fig. 4

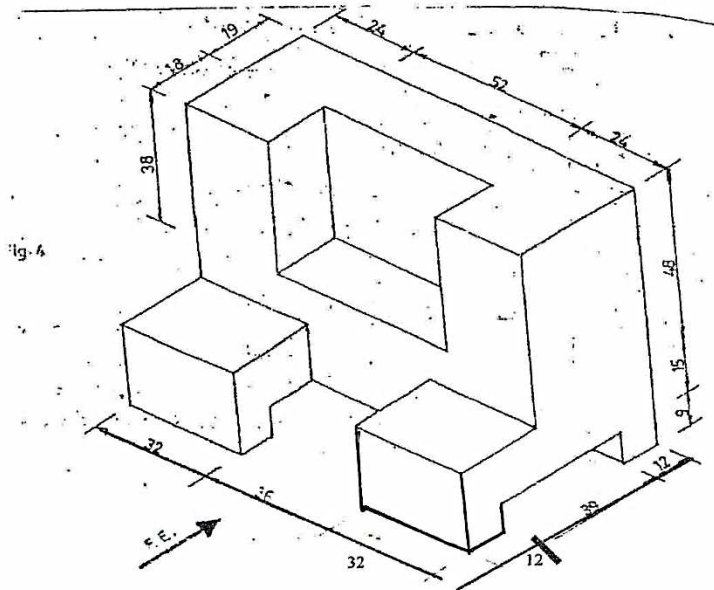


Fig. 1

