University of choice

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)
SCHOOL OF AGRICULTURE, VETERINARY SCIENCES AND TECHNOLOGY (SAVET)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR

MAIN EXAMS
OF
DIPLOMA IN (GENERAL AGRICULTURE / HOTICULTURE)

COURSE CODE: DAG/DAH 057

COURSE TITLE: TECHNICAL DRAWING

DATE: 21.12.23   **TIME: 8-10AM**

INSTRUCTIONS TO CANDIDATES

This paper is divided into two sections, **A and B**. Answer ALL Questions in SECTION A and any Two in SECTION B

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 4 Printed Pages. Please Turn Over

SECTION A: ANSWER ALL QUESTIONS (40 MARKS)

Q1. a) i) Give any two goals / objectives of studying technical drawing.   **(4 marks)**

ii) Which are the two commonly used techniques in engineering drawings? **(4 marks)**

iii) When do we use 2H and 4H pencils in technical drawing?   **(2 marks)**

B). i.) With the aid of a diagram show standard metric sheet sizes used in technical drawing papers   **(4 marks)**

ii) With the aid of a diagram hand sketch a title Block dimensions giving all the labels.
                                                                    (4 marks)

iii) Using the spaces between the lines in your booklet in Roman Print, Print alphabetic letters in their lowercase.   **(2 marks)**

C) i. Given an equilateral triangle with sides measuring 60mm inscribe a circle and show all your construction lines   **(6 marks)**

ii. Bisect a straight line **AB** into two measuring 73mm. Show all your construction lines.
                                                                    (4 marks)

D. 1) With the aid of a diagram show chain dimensioning in Technical drawing

                                                                    (4 marks)

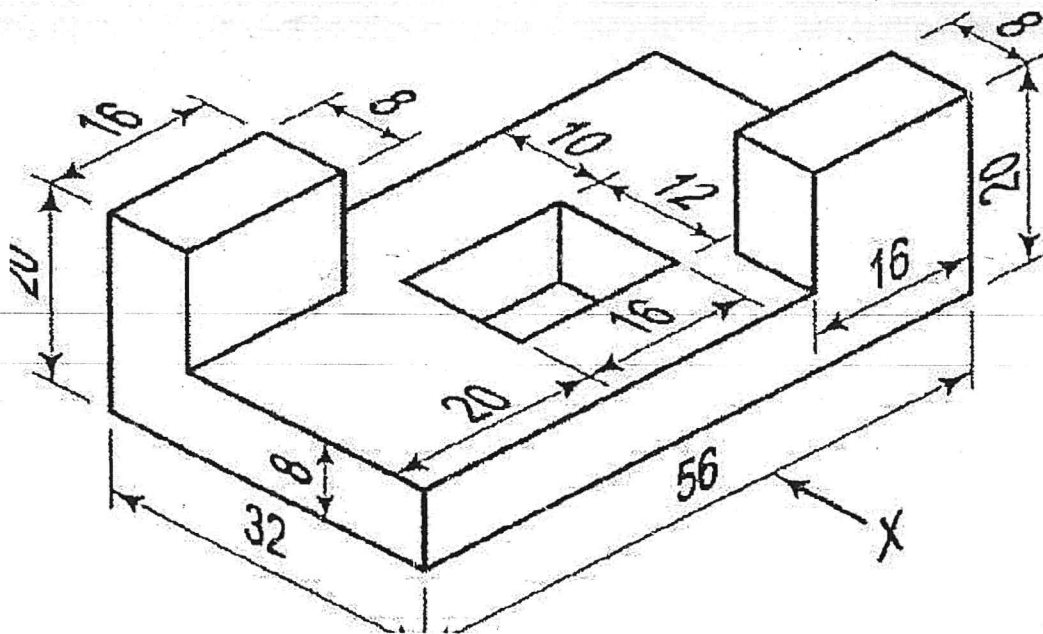ii) Define the following terms as used in technical drawing
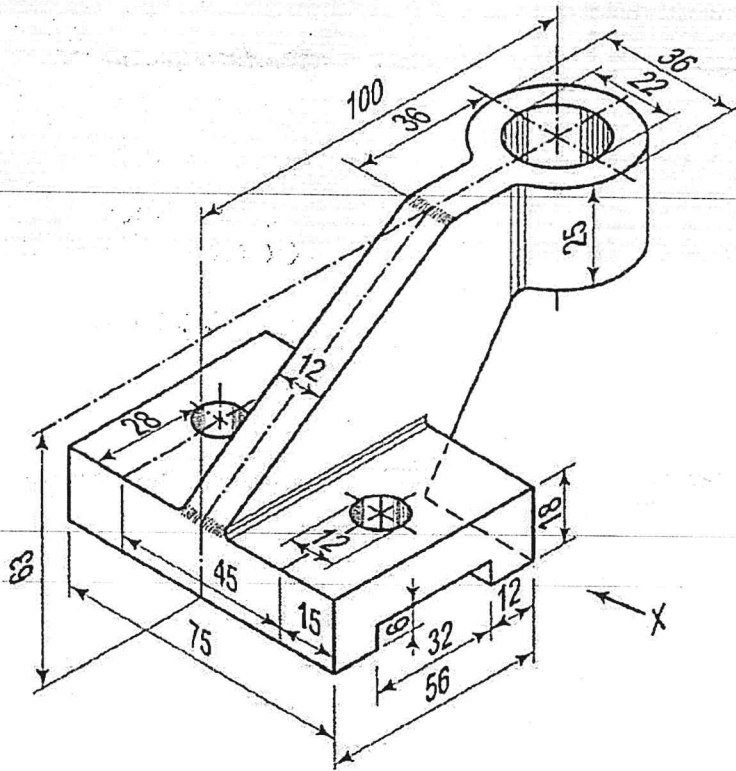
   1. Chamfer   **(3 marks)**
   2. Baseline dimensioning   **(3 marks)**

SECTION B. ANSWER ANY TWO QUESTIONS(30 MARKS)

Q2. Draw a regular octagon given the distance across corners as 65mm.   **(15marks)**

Q3. Using first angle projection draw the three views of the figure shown and include any five major dimensions   **(15 marks)**

Q4. Using free-hand sketching draw the pictorial drawing given. **(15 marks)**

Q5. Circumscribe a circle around triangle **ABC** with the base length 50mm and two sides of 70mm each. **(15 marks)**