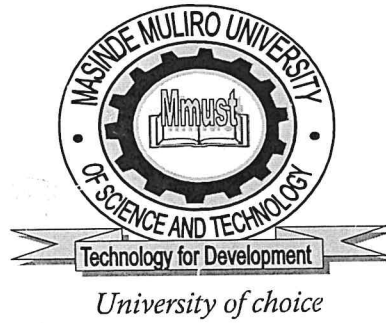


DAG/DAH 066



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

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
FIRST SEMESTER SECOND YEAR 2023/2024 ACADEMIC YEAR**

**MAIN EXAMS
OF
DIPLOMA IN GENERAL AGRICULTURE AND HORTICULTURE**

COURSE CODE: DAG/DAH 066

COURSE TITLE: INTRODUCTION TO WORKSHOP TECHNOLOGY

DATE: 5.12.23

TIME: 3-5PM

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 3 Printed Pages. Please Turn Over

SECTION A: ANSWER ALL QUESTIONS (40 MARKS)

Q1.A.i. What do you understand by the word Personal Protective Equipment (PPE) in a workshop environment? **(2 marks)**

ii. Give any four advantages of sheet metal parts / products **(4 marks)**

iii. Name any four sheet metal tools **(4 marks)**

B).1). Define the following woodworking hand tools

i. Laser measure **(4 marks)**

ii. Combination square **(4 marks)**

2) Discuss the Two most common methods of using a file in woodwork workplace **(2 marks)**

C). Explain the following forging processes

i. Open die forging **(5 marks)**

ii. Closed die forging **(5 marks)**

D).i Wood Chisels can cause serious injuries if not used correctly. State any three safety measures to avoid any injuries while using chisels **(6 marks)**

ii) Name any Four applications' of chisels. **(4 marks)**

SECTION B .ATTEMPT ANY TWO QUESTIONS (30 MARKS)

Q2. Define a bench guider in a wood working workplace and discuss the safety measures to be observed while operating it. **(15 marks)**

Q3. Discuss the following mechanical properties

1. Hardness
2. Brittleness
3. Ductility

(15 marks)

Q4. Highlight the following types of accidents in workshop

- i. Trivial
- ii. Near Accident
- iii. Why is it important to observe industrial safety at workplace?

(3 marks)

(3 marks)

(9 marks)

Q5. Using freehand sketch draw a typical line layout or product layout in manufacturing process and give any three merits. **(15 marks)**

