

(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR

SECOND YEAR SECOND SEMESTER EXAMINATIONS

FOR THE DIPLOMA IN MECHANICAL ENGINEERING

COURSE CODE:

DME 064

COURSE TITLE:

WORKSHOP TECHNOLOGY II

DATE: 29/04/2022

TIME: 12:00-2:00 PM

:

INSTRUCTIONS TO CANDIDATES

Answer question ONE and any other two questions

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over.

QUES	TION ONE	(30 marks
a)	State and explain the FIVE main hazards in a workshop during arc well marks)	ding (5
b)	With the aid of well labelled sketches explain FIVE welding deffects and their causes (10 marks)	
c)	Dicuss the THREE main welding techniques. Draw neat sketches to elabo	rate (9 marks)
d)	Using well labelled diagrams explain THREE types of welded joints welding.	formed during (6 marks)
. QU I	ESTION TWO	(20
<u>marks</u>		
a)	Describe the oxy-acetylene gas welding process	(10 marks)
b)	Discuss the flames produced during gas welding (Use neat sketches to elab	oorate). (9 marks)
c)	What is flame cutting mark)	(1
QUES	STION THREE	(20 marks)
a)	Differentiate between TIG and MIG	(5 marks)
b)	Discuss spot welding as a pressure type welding process. marks)	(5
c)	Describe TWO methods used during inspection of defects in welds marks)	(10
QUES	STION FOUR	(20 marks)
۵)	Differentiate between brozing and broze welding	(5 marks)

b) Describe the arc welding equipment and the function of each part of the equipment

(8 marks)

c) Explain how an arc is created between the electrode and the workpiece

(5 marks)

d) State TWO sources of power in arc welding

(2 marks)