



## MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

#### MAIN CAMPUS

### UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR

# FOURTH YEAR FIRST SEMESTER EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL AND STRUCTURAL **ENGINEERING** 

**TEC 302** COURSE CODE:

WORKSHOP ORGANIZATION AND COURSE TITLE:

MANAGEMENT

TIME: 3.00 - 5.00 PM DATE: FRIDAY 29<sup>TH</sup> APRIL 2022

#### **INSTRUCTIONS:**

- 1. This paper contains FOUR questions
- 2. Answer question ONE and any other two questions from this paper
- 3. Marks for each question are indicated in the parenthesis.
- 4. Examination duration is 2 Hours

MMUST observes ZERO tolerance to examination cheating

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

TEC 302 WORKSHOP ORGANIZATION AND MANAGEMENT

#### **QUESTION 1 (COMPULSORY)**

i) Imagine yourself coming up with a Wood workshop outline the layout of various tools and equipment, gang ways, work benches and everything required to convenience work out put in a Technical Training institute. (16 marks)

ii) Explain meaning of the term 'layout planning' as used in Plant layout.

(2 marks).

iii) Outline four aspects in an educational workshop that would require close Management.

(8marks)

#### **QUESTION 2**

Plant location is an important factor in achieving plant objectives. Discuss. (22 mks)

#### **QUESTION 3**

i). Briefly describe the concept of plant layout

(2 marks)

ii) "safety improves quality in a workshop". Comment.

(8 marks)

iii). Outline four types of maintenance programmes serviced at a work place. (4 marks)

iv). Mention eight principles of plant layout:

(8 marks)

#### **OUESTION 4**

i). State four potential sources of danger in a workshop.

(4marks)

ii). Explain with examples the meaning of the two terms below.

a). 'Workshop organization'

(6 marks)

b). 'Workshop management'

(6 marks)

iii). Distinguish between the following plant layouts:

a). Hybrid layouts

(3marks)

b). Fixed-Position layouts

(3marks)