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

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS 2022/2023 ACADEMIC YEAR
THIRD YEAR SECOND SEMESTER EXAMINATIONS**

**FOR THE DEGREE
OF
BACHELOR OF TECHNOLOGY EDUCATION IN CIVIL AND
BUILDING TECHNOLOGY**

COURSE CODE: TEC 302

**COURSE TITLE: WORKSHOP ORGANIZATION AND
MANAGEMENT**

DATE: 13TH APRIL 2023

TIME: 8 – 10 A.M

INSTRUCTIONS:

1. This paper contains FIVE questions
2. **Question ONE (1) is Compulsory and ANY other Two**
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.

Question 1.

Use well labeled sketch to show the wood workshop outline and layout of various tools and equipment, gang ways, and everything to convenience work out put that is housed in the workshop of a Technical Training institute. **(26 marks)**

Question 2.

- i). Explain the term plant layout as used in workshop organization and management. (5 marks)
- ii). Mention *nine* objectives of a good plant layout. (9 marks)
- iii). Mention *four* types of plant layout. (4 marks)
- iv). Significance of location of a plant layout is important to consider. Mention three points in support of the statement. (4 marks)

Question 3.

i). Mention five advantages and five disadvantages of product Layout as a type of plant layout: (10 marks)

i). Mention five advantages and five disadvantages of process (functional) Layout as a type of plant layout: (10 marks)

iii). process (functional) layout is also suitable in some cases. Mention any two such cases. (2 marks)

Question 4.

- i). Explain the meaning of '**workplace safety is important**'. (8marks)
- ii). State four potential sources of danger in a workshop. (4 marks)
- iii). Outline the meaning of the two terms as used in the study:
 - a). Workshop organization (4 marks)
 - b). Workshop management (6 marks)