TEC 302



(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS UNIVERSITY EXAMINATIONS 2019/2020 ACADEMIC YEAR

THIRD YEAR SECOND SEMESTER EXAMINATIONS

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

COURSE CODE: TEC 302

COURSE TITLE: WORKSHOP ORGANIZATION AND MANAGEMENT

DATE: THURSDAY 5TH NOVEMBER 2020 TIME: 9.00 - 11.00 AM

INSTRUCTIONS:

- 1. Answer Question ONE and any other TWO Questions
- 2. Marks for each question are indicated in the parenthesis.
- 3. It is in the best interest of the student to write legibly
- 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

i).Use well labeled diagram to show the Wood workshop outline and 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

i). Explain the meaning of the statement, "safety improves quality in a workshop". (8 marks)

ii). State any four workshop safety rules in connection with attire (4marks)

iii). Distinguish between the following plant layouts:

- a). Process layouts (3marks)
- b). Product layouts (3marks)

Question 3

i).Briefly describe the concept of plant layout. (2 marks)

ii).Explain the significance of 'suitability of location' as a point to consider before initiating a plant in that given area. (4 marks)

iii).Mention eight objectives of plant layout: (8 marks)

iv).Mention eight principles of plant layout: (8 marks)

Question 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)