BU

(*University of Choice*)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITRY MAIN EXAMINATIONS 2023/2024 ACADEMIC YEAR

THIRD YEAR SECOND SEMESTER EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF TECHNOLOGY EDUCATION

COURSE CODE: TEC 302

COURSE TITLE: WORKSHOP ORGANIZATION AND MANAGEMENT

DATE: 12TH APRIL 2024 TIME: 11:30 – 1:30 P.M.

INSTRUCTIONS:

1. This paper contains Four questions
2. Answer **Question One** and any other **TWO** questions
3. Marks for each question are indicated in the parenthesis.
4. Examination duration is 2 **Hours**

MMUST observes ZERO tolerance to examination cheating

Question 1. (26mks)

i). You are the head of department in a technical training institute and asked by the Board of Governors to plan carefully in order to come up with an operating workshop for teaching and learning processes in your National Polytechnic. Explain giving the step by step the plan of the work shop you would come up with. (16 marks)

ii). Explain each of the *four* basic types of maintenance falling under maintenance, repair and overhaul (8 marks)

iii). Explain meaning of the term "*planning work shop layout*". (2 marks).

Question 2. (22mks)

i). Explain the meaning of the statement, "*safety improves quality in a workshop*". (8 marks)
ii). Illustrate what "*Organization*" and "*management*" in the workshop refer to? (4 marks)
iii). State any *four* workshop safety rules in connection with clothing (4marks)
iv). State *six* potential sources of danger in a workshop. (6marks)

Question 3. (22mks)

One of the Principal factors of plant layout is location. Discuss how location would affect the organizational objective. (22 marks).

Question 4 (22mks)
i). Use examples to distinguish between the following plant layouts:
a). Process layouts (2marks)
b). Product layouts (2marks)
c). Hybrid layouts (2marks)
d). Fixed-Position layouts (2marks)

ii). Out-line any: -
a). Seven objectives of plant layout: (7 marks)).
b). Seven principles of plant layout: (7 marks)