



MURANG'A UNIVERSITY OF TECHNOLOGY

SCHOOL OF ENGINEERING TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

UNIVERSITY ORDINARY EXAMINATION

2023/2024 ACADEMIC YEAR

**FOURTH YEAR SECOND SEMESTER EXAMINATION FOR BACHELOR
OF SCIENCE IN MECHANICAL ENGINEERING**

ECT401: INDUSTRIAL ORGANIZATION & MANAGEMENT

DURATION: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

1. Answer Question one and any other two questions.
2. Mobile phones are not allowed in the examination room.
3. You are not allowed to write on this examination question paper.

SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION

QUESTION ONE (30 MARKS)

- a) Outline four reasons why principles of management are important to any organization. (4marks)
- b) Define the terms as applied to PPC
- ✓ Production
 - ✓ Planning
 - ✓ Control (6marks)
- c) State four needs for PPC (4marks)
- d) Describe six benefits derived from a sound maintenance management system. (6marks)
- e) Explain five objectives of Human resource planning (5marks)
- f) List five factors required to do process planning (5marks)

SECTION TWO: ANSWER ANY TWO QUESTIONS

QUESTION TWO (20 MARKS)

- a) Define the terms
- Breakdown maintenance
 - Corrective maintenance
 - Preventive maintenance (6marks)
- b) Explain four reasons why the study of theories of management are important to managers (4marks)
- c) List five salient features of bureaucracy (5marks)
- d) Explain five factors you can theorize from Hawthorne studies (5marks)

QUESTION THREE (20 MARKS)

- a) State and explain five groups under functional role of HRM (10marks)
- b) Outline five principles of scientific management according to Fredrick Taylor (5marks)

- c) List five applications of CPM and PERT as applied in scheduling tools and techniques (5marks)

QUESTION FOUR (20 MARKS)

- a) State and explain three nature characteristics of management principles (6marks)
- b) Explain four functions of maintenance department (4marks)
- c) State four factors to be considered in maintenance planning (4marks)
- d) Outline six primary responsibilities of Human resource management (6marks)