

# TECHNICAL UNIVERSITY OF MOMBASA

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FACULTY OF ELECTRICAL AND ELECTRONIC ENGINEERING

ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT

## UNIVERSITY EXAMINATION FOR:

BSC ELECTRICAL AND ELECTRONICS ENGINEERING

EEE4431 INDUSTRIAL MANAGEMENT I

## END OF SEMESTER EXAMINATION

**SERIES: APRIL 2025**

**TIME: 2 HOURS**

**DATE:**

### Instructions to Candidates

You should have the following for this examination

*-Answer Booklet, examination pass and student ID*

This paper consists of **five** Questions; Question ONE is compulsory. In addition attempt any Other TWO Questions.

**Do not write on the question paper**

### **Question ONE**

- (a) (i) Define the term management. **(2 marks)**
- (ii) Explain in detail the various functions of management. **(18 marks)**
- B )Distinguish between PERT and CPM **(10 marks)**

### **Question TWO**

- (a) Emurate the **SIX** activities of management according to Henry Fayol. **(6 marks)**
- (b) Describe the **FOURTEEN** principles of management according to Henry Fayol **(14 marks)**

### **Question THREE**

- (a) State the assumptions of:
- (i) Theory X

- (ii) Theory Y  
and explain the effect of each in an organization.

**(16**

**marks)**

- (b) **(4 marks)**

**Question FOUR**

- (a) State the need of plant selection analysis. **(5 marks)**

- (b) Describe the concept of dimensional analysis and derive an expression of the relative merit. **(7**

**marks)**

- (c) (i) Distinguish between controllable factors and uncontrollable factors that determine plant location.

- (ii) Outline the dominant factor for a manufacturing organization.

**(8 marks)**

**Question FIVE**

- (a) (i) Explain the meaning of inventory.

- (ii) State the component that fall in:

(I) direct inventory

(II) indirect inventory

**(10 marks)**

- (b) (i) Explain the inventory control function in an organization.

- (ii) Describe the costs that determine overall cost of inventory.

**(10 marks)**