

TECHNICAL UNIVERSITY OF MOMBASA

SCHOOL OF ELECTRICAL AND ELECTRONIC ENGINEERING

ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT

UNIVERSITY EXAMINATION FOR:

BSC ELECTRICAL AND ELECTRONICS ENGINEERING

EEE 4501 ENGINEERING MANAGEMENT I

END OF SEMESTER EXAMINATION

SERIES: AUGUST 2024

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 Industrial Management I

Question ONE

- (a) Define the term management. **(2 marks)**
- (b) Explain in detail the various functions of management. **(18 marks)**

Question TWO

- (a) Enumerate 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 each of the following theories and explain the effect of each in an organization.
 - (i) Theory X

(ii) Theory Y

(16 marks)

(b) State any Eight of Fayol's principles of management
marks)

(4

Question FOUR

(a) State the need for plant selection analysis.

(5 marks)

(b) Describe the concept of dimensional analysis and derive an expression for the relative merit.
marks)

(7

(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)