



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF MECHANICAL & AUTOMOTIVE ENGINEERING

UNIVERSITY EXAMINATION FOR:

**BACHELOR OF SCIENCE IN MECHANICAL AND AUTOMOTIVE
ENGINEERING**

EMG 2516 : INDUSTRIAL MANAGEMENT (PAPER 2)

END OF SEMESTER EXAMINATION

SERIES: DECEMBER 2016

TIME: 2 HOURS

DATE: Pick Date Dec 2016

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **FIVE** questions. Attempt any **THREE** questions.

Do not write on the question paper.

Question ONE

- (a) Outline the importance of management in industry (4 marks)
- (b) By giving relevant examples, differentiate: (8 marks)
- i. Primary from Secondary Industries,
 - ii. Tertiary from Quaternary Industries.
- (c) With the aid of a well labelled diagram, outline the different levels of management and for each level, list 2 roles. (8 marks)

Question TWO

- (a) Briefly discuss the importance of the following managerial skills: (8 marks)

- i. Technical skill,
- ii. Human skill,
- iii. Conceptual skill,
- iv. Design skill.

(b) Discuss 2 features or elements of:

- i. Scientific management. (4 marks)
- ii. Administrative management. (4 marks)

(c) Explain the term “Social Identity” and outline the social identity process. (4 marks)

Question THREE

(a) Discuss 2 advantages and 2 limitations of planning. (8 marks)

(b) Outline 2 advantages and 2 disadvantages of informal organizations (4 marks)

(c) With the aid of well labeled diagrams, discuss the features of any 3 types of organizational charts. (8 marks)

Question FOUR

(a) Briefly discuss 5 factors that influence a plant layout. (10 marks)

(b) List 1 advantage and 1 disadvantage of: (4 marks)

- i. Product or line layout,
- ii. Process or functional layout.

(c) Outline 2 recent trends in design and explain their importance to plant layout. (4 marks)

(d) Explain the importance of ventilation and lighting to a plant utility. (2 marks)

Question FIVE

(a) Discuss 3 main factors that affect inventory control. (6 marks)

(b) List 4 benefits of inventory control. (4 marks)

(c) ABC Ltd. is engaged in sale of Retread tires. Its cost per order is \$400 and its carrying cost unit is \$10 per unit per annum. The company has a demand for 20,000 units per year. Calculate the order size, total orders required during a year, total carrying cost and total ordering cost for the year. (10 marks)