



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 1)

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) Briefly explain the relation between industry and management. (4 marks)
- (b) Outline the roles of the following levels of industry and for each, give two relevant examples. (10 marks)
- i. Primary
 - ii. Secondary
 - iii. Tertiary
 - iv. Quaternary
 - v. Quinary
- (c) State and briefly discuss 3 important managerial skills. (6 marks)

Question TWO

- (a) Discuss 2 main functions of each of the following managerial levels. (6 marks)
- i. Top level management.
 - ii. Middle level management.
 - iii. Lower / supervisory level management.
- (b) Explain the main difference between;
- i. Theory of scientific management and administrative management theory. (3 marks)
 - ii. Bureaucratic theory and behavioral theory of management. (3 marks)
- (c) Citing the Team Building Theory;
- i. Discuss what the term “Team” refers to. (2 marks)
 - ii. Give 4 characteristics of a team. (6 marks)

Question THREE

- (a) Discuss the following terms as used in management. (8 marks)
- i. Planning
 - ii. Organizing
 - iii. Staffing
 - iv. Controlling
- (b) For each of the roles of management listed in part (a), outline 2 advantages and 2 disadvantages. (8 marks)
- (c) Distinguish a Public Limited Company from a Private Limited Company. (4 marks)

Question FOUR

- (a) Explain the term “plant layout”. (2 marks)
- (b) Identify 3 determinants of a plant layout. (6 marks)
- (c) Briefly discuss the following principles with regard to plant layout. (8 marks)
- i. Principle of minimum movement.
 - ii. Principle of flow.
 - iii. Principle of interdependence.
 - iv. Principle of minimum investment.

(d) List 4 factors to be considered when designing a plant building. (4 marks)

Question FIVE

(a) Explain the term “Inventory”. (2 marks)

(b) Discuss 4 objectives of inventory control. (8 marks)

(c) Differentiate dependent-demand from independent-demand inventory. (3 marks)

(d) Differentiate minimum level from re-order level with regard to stock. (4 marks)

(e) Outline the 3 main classifications of inventory control. (3 marks)