



**THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE**

**(A Constituent College of JKUAT)**

(A Centre of Excellence)

# **Faculty of Engineering & Technology**

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

**UNIVERSITY EXAMINATION FOR:**  
BACHELOR OF SCIENCE IN CIVIL ENGINEERING

ECE 2509: ENGINEERING MANAGEMENT II

**END OF SEMESTER EXAMINATION**

**SERIES: DECEMBER 2012**

**TIME: 2 HOURS**

**Instructions to Candidates:**

You should have the following for this examination

- *Answer Booklet*

This paper consists of **FIVE** questions.

Answer question **ONE (COMPULSORY)** and any other **TWO** questions

Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed pages

---

**Question One (Compulsory)**

Read the excerpt below and answer the questions that follow:

R & M Construction Machinery had for years provided Mjengo Ltd Inc. with sophisticated equipment and reliable repair service. Mjengo Ltd Inc returned a failed piece of equipment. A meeting was held which included Mr. Humber, a representative from Mjengo Ltd. Inc, Mr. Nash R & M's returned goods area representative and Mr. Winter, and R & M Engineer intimately acquainted with the kind of equipment Mjengo Ltd Inc. had returned.

Mr. Nash represented R & M's "Official Position" the piece of equipment is alright. However, during the course of the meeting, it becomes apparent to Mr. Winters that the problem has to be R & M's. He

suspects that the equipment was not properly tested out by R & M, and that it failed because of an internal problem. Mr. Winter keeps quiet during the meeting, after the meeting he talks to Mr. Nash about his diagnosis. He suggests they tell Mjengo Ltd Inc. that the problem is R &M's fault, and that R& M will replace the defective equipment Mr. Nash replies, "I don't think it is wise to acknowledge that it is our fault there is no need to hangout our wash and lessen Mjengo's Inc. Ltd confidence is the quality of our work. A 'good will' gesture to replace the equipment should suffice".

R & M Management decides to tell Mjengo Inc. Ltd that they will adjust to the customer's needs "because you have been such a good customer all these years". Although R & M replaces the equipment at its own expense. It does not tell Mjengo Inc. Ltd the real nature of the problem.

- a) Should Mr. Winter had said something about his diagnosis in the presence of the customer? **(10 marks)**
- b) Discuss R & M's resolution of the problem, in respect to Mr. Nash stand. **(10 marks)**
- c) Should R & M's way of handling the problem be of any concern to Mr. Winter or a Management problem? **(10 marks)**

### Question Two

Briefly describe situations that may lead to the following in the execution of a contract.

- (i) Liquidated damages
- (ii) Variation of contract price
- (iii) Termination of contract
- (iv) Delays and extension of time. **(20 marks)**

### Question Three

- a) In bidding and award of special contracts, outline **FIVE** ethical conduct requirements for material supplies. **(10 marks)**
- b) State **FIVE** factors that influence the choice of appointment procurement method and type of contract. **(10 marks)**

### Question Four

Briefly describe the contribution of the following people in the field of work study:

- a) Fredrick Taylor
- b) Lillian Gilbreth **(20 marks)**

### Question Five

- a) Briefly describe the **THREE** main types of contracts. **(9 marks)**
- b) Outline any **FIVE** important contractual provisions that must be included in a contract. **(11 marks)**

