



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(**(A Constituent College of JKUAT)** (A Centre of Excellence)

Faculty of Engineering &Technology in Conjunction with Kenya Institute of Highways and Building & Technology (KIHBT)

DEPARTMENT OF ELECTRICAL & ELECTRONIC ENGINEERING

HIGHER DIPLOMA IN TECHNOLOGY

EEE 3202: ENGINEERING MANAGEMENT & PROFESSIONAL PRACTICE II

END OF SEMESTER EXAMINATION SERIES: AUGUST 2012 TIME: 2 HOURS

Instructions to Candidates:

- You should have the following for this examination
 - Answer Booklet
 - Non-Programmable Scientific Calculator

This paper consists of **FIVE** questions Answer any **THREE** questions

- a) Give any **FOUR** internal factors influencing productivity in any production system. (4 marks)
- **b)** Explain the following terms as given during discharge of a contract.

 b) Explain the following terms as given during discharge of a contract. i) Performance 	
ii) Merger	
iii) Breach of condition	
iv) Variations (8 m	arks)
· ·	,
c) Explain:i) The advantages of statistical quality control over other techniques of quality control i	n
i) The advantages of statistical quality control over other techniques of quality control is production factories. (4 m	
ii) Portfolio management in production industry. (4 ma	
d) Explain the advantages of unplanned maintenance.	
Question Two (20 marks)	
a) Define:	
i) Stock taking	
ii) Cataloguingiii) Material specifications(3 material specifications)	arks)
	-,
b) State:i) Any THREE daily functions of warehouse management	
ii) Any THREE reasons for commercial negotiations in suppliers. (6 m	arks)
c) Describe in detail the following process in supplies.	
i) Sourcing	
ii) Supply contract administration	
iii) Stores accounting (6 m	arks)
d) Explain how and when obsolete items become and surplus stock occur in supplies departme (5 m	
· ·	ii iio)
Question Three (20 marks)	
a) State the objectives of Healthy and Safety at Work Act 1974. (3 m	arks)
b) State FIVE duties of an employer as defined responsibilities in the Healthy and Safety Act. (7 m	arks)
c) Give:	
i) THREE reasons why need for insurance cover could arise for a manufacturing compan	-
ii) THREE broad classes of insurance policies available in industry. (6 m	arks)
d) Explain why licensing is necessary for public and private business in Kenya. (4 ma	arks)
Question Four (20 marks)	

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a) State any FOUR functions traditionally used in project management.	(4 marks)	
 b) Define the following phrases used in projects. i) Project proposal ii) Project cycle 	(4 marks)	
 c) Using suitable sketches, explain the organization of the following planning to ⁱ⁾ CPM ii) GRANTT CHART 	ools. (4 marks)	
 d) Distinguish between the following concerning engineering projects. i) GOALS ii) OBJECTIVES iii) ACTIVITIES iv) TASKS 	(4 marks)	
e) Explain the following terms as implied in construction contracts.		
 i) Extension of time ii) Variation order iii) Variation iv) Completion (final) certificate. 	(4 marks)	
Question Five (20 marks)		
 a) State the merits of: i) Planned maintenance ii) Breakdown maintenance 	(6 marks)	
b) Outline the steps required by planned preventive maintenance system to enplant (machines) in an organization.	nsure the efficient use of (4 marks)	
c) Explain why replacement may be preferred to either repair or service of a pla	nt. (4 marks)	
d) Draw the optimum provision graph and explain the importance of optimum le	evel of maintenance. (6 marks)	