



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF ELECTRICAL & ELECTRONIC ENGINEERING

UNIVERSITY EXAMINATION FOR:

DIPLOMA IN ELECTRICAL POWER ENGINEERING

EEP2309: ESTIMATING, TENDERING & ENGINEERING SERVICES

END OF SEMESTER EXAMINATION

SERIE: JULY 2019

TIME: 2 HOURS

DATE: AUGUST 2019

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) Explain the roles of the following professionals in any project work
- (i) Consulting Engineer
 - (ii) Electrical Technician **(6marks)**
- (b) Explain the word “Bill of Quantities” and how you may come up with the overall tender sum. **(8marks)**
- (c) Explain the procedure of estimating and tendering for an installation given a contract document **(8marks)**

Question TWO

- a) In relation to the law of contract, outline:
- (i) Two points of distinction between fraudulent misrepresentation and innocent misrepresentation
 - (ii) Two points of distinction between specialty contract and simple contract **(8marks)**
- b) Johnstone hired Skylight premises from Maingi for his computer college. He paid a monthly rent of Ksh 40,000 on a quarterly basis. Last month he paid Maingi Ksh 120,000 being rent for three months. Two days ago, Skylight premises were destroyed by terrorist and as a result Johnstone has to relocate to other premises. Johnstone has demanded a refund of Ksh 80,000 being the rent paid in advance. Maingi has refused to refund the money. Johnstone is aggrieved and seeks your legal advice

(i) Explain the legal principles applicable

(ii) Advise Johnstone

(12marks)

Question THREE

a) Explain the following sources of law in Kenya

(i) Constitution

(ii) Culture

(6marks)

(b) Discuss the purpose of law in society

(6marks)

(c) Outline two points of distinction between:

(i) Direct legislation and indirect legislation

(ii) Civil and criminal law

(8marks)

Question FOUR

In relation to the law of torts, explain:

a) Three elements of the tort of negligence

(6marks)

b) Three conditions that must be satisfied before the courts can apply the doctrine of *Res ipsa loquitor*

(6marks)

c) Four general defences in tort

(8marks)

Question FIVE

a) Describe the various steps required in the planning process of any project

(10marks)

b) Explain the purpose of a bar chart in projects management

(2marks)

c) (i) Describe the “line of Balance” method in project management

(ii) Explain in which condition the Line of Balance may be preferred over PERT or CPM. **(8marks)**