



# TECHNICAL UNIVERSITY OF MOMBASA

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APPLIED AND HEALTH SCIENCES

PURE AND APPLIED SCIENCE

## UNIVERSITY EXAMINATION FOR:

AAB 4109 FORENSIC ILLUSTRATIONS

BMFT 16:

SPECIAL/ SUPPLIMENTARY EXAMINATIONS

**SERIES: SEPTEMBER 2018**

**TIME: 2HOURS**

**DATE: Sep 2018**

### Instructions to Candidates

You should have the following for this examination

-*Answer Booklet, examination pass and student ID*

This paper consists of questions. Attempt.

**Do not write on the question paper.**

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### **Question ONE**

- a) Define forensic anthropology and animations. (4 marks)
- b) Outline scenarios in which DNA analysis would be useful in forensic science. (5 marks)
- c) Outline the role of medical artists in forensic investigations. (5 marks)
- d) Enumerate the various specialists/ disciplines involved in forensic investigations. (5 marks)
- e) In cases of child abuse, outline the various features that an anthropologist examines. (5 marks)
- f) The methods used to identify a person from a skeleton, relies on the past contributions of various anthropologists and the study of human skeletal differences. Briefly explain. (6 marks)

## **QUESTION TWO**

- a) Explain how facial reconstruction is used in forensic illustrations. (10 marks)
- b) Describe how age estimation in the living, is carried out and for what purpose. (10 marks)

## **QUESTION THREE**

- a) Briefly explain the investigative questions, an anthropologist is able to answer during analysis of human skeletal remains. (10 marks)
- b) When there are suspects relating to the identity of an unidentified body, and the usual methods of identification (DNA analysis/ dental record comparison) are not possible, craniofacial superimposition may be useful. Explain. (10 marks)

## **QUESTION FOUR**

- a) Describe the role of a forensic anthropologist, during the recovery of skeletal remains from fire scenes. (10 marks)
- b) Briefly explain the information that analysis of entomological evidence would provide, in forensic investigations. (10 marks)

## **QUESTION FIVE**

Describe facial anatomy and the role it plays in forensic investigations. (20 marks)