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**W1-2-60-1-6**

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

# University Examinations 2015/2016

**EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE**

# SZL 2437: FORENSIC SCIENCE

**DATE: DEC, 2015**  **TIME: 2 HOURS**

**INSTRUCTIONS: Answer Question ONE (Compulsory) and Any Other TWO Questions.**

**Question One**

a) Explain how to ensure and maintain integrity of evidence samples. [5 marks]

b) Discuss briefly forced DNA profiling of offenders. [5 marks]

c) Outline the steps in a basic DNA extractor experiment. [5 marks]

d) Compare the sex determination of birds and mammals of molecular level. [5 marks]

e) Explain the use of the HPLC identification of toxins. [5 marks]

f) Explain the use of DNA fingerprinting in partnering testing. [5 marks]

**Question Two (20 Marks)**

Describe the development of a DNA profiling system of an endangered wildlife species.

**Question Three (20 Marks)**

Describe the handling and determination of identity of an infectious or potentially infectious agent.

**Question Four (20 Marks)**

Discuss the various offences against morality.

**Question Five (20 Marks)**

A KDF soldier died in the barracks shortly after returning from fighting Al Shabab in Somalia. As a medical or crime scene laboratory officer, describe how you would investigate the cause of death.