

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

## JOMO KENYATTA UNIVERSITY

**OF**

**AGRICULTURE AND TECHNOLOGY**

# University Examinations 2016/2017

**YEAR 2 SEMESTER II EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN APPLIED BIOLOGY**

**SZL 2310: BIOPROSPECTING AND BIODIVERSITY CONSERVATION**

**DATE: June 2017 TIME: 2 HOURS**

**Instructions: Answer Question One (Compulsory) and Any Other Two Questions.**

**QUESTION ONE (30 MARKS)**

1. Define bioprospecting and state its importance. (5marks)
2. Outline the consideration for formulating a bioprospecting policy (5marks)
3. Discuss briefly bioactive compound sources (5marks)
4. Using a well labelled diagram, outline the drug discovery cycle. (5marks)
5. i. What the importance of genomics in drug discovery? (5marks)

ii. Discuss briefly the importance of biogeography as a bioprospecting tool. (5marks)

**QUESTION TWO (20 MARKS)**

Discuss types and importance of biodiversity. (20marks)

**QUESTION THREE (20 MARKS)**

Write an essay on ‘Convention for Biological Diversity of the United Nations.’ (20marks)

**QUESTION FOUR (20 MARKS)**

Discuss intellectual property rights and why they are protected. (20marks)