



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRIBUSINESS MANAGEMENT, BACHELOR OF SCIENCE IN AGRICULTURE EDUCATION AND EXTENSION AND BACHELOR OF SCIENCE IN FOOD SECURITY

4TH YEAR 1ST SEMESTER 2017/2018 ACADEMIC YEAR

REGULAR

COURSE CODE: AEB 3417

COURSE TITLE: ENVIRONMENT AND SOCIO-ECONOMIC IMPACT ASSESSMENT

EXAM VENUE: LAB 14/15

**STREAM: BSc. (Agribusiness Management,
Agriculture Education and Extension & Food Security)**

DATE: 21/12/17

EXAM SESSION: 9.00- 11.00 AM

TIME: 2 HOURS

Instructions:

- 1. Answer ALL questions in section A and ANY other 2 Questions in section B.**
- 2. Candidates are advised not to write on question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

SECTION A [30 MARKS]

Answer ALL questions from this Section.

1. (i) Define the term Environmental Impact Assessment. **(2 Marks)**
(ii) Briefly describe **FOUR** key objectives of Environmental Impact Assessment. **(4 Marks)**
(iii) Highlight **THREE** core values of Environmental Impact Assessment. **(3 Marks)**
2. (i) Clearly outline **FOUR** objectives of an EIA scoping process. **(4 Marks)**
(ii) Briefly explain **FOUR** factors that would limit public participation during an EIA scoping process. **(4 Marks)**
3. (i) With help of a diagram describe briefly the **THREE** elements of impact mitigation. **(6 Marks)**
(ii) Describe any **TWO** methods used for predicting environmental impacts. **(4 Marks)**

SECTION B [40 MARKS]

Answer ANY TWO questions from this Section.

4. Suppose your consultancy firm has been awarded a tender to carry out an Environmental audit for Kevian Fruit processing company in Thika town.
 - (i) Describe **FIVE** objectives of Environmental Audit. **(5 Marks)**
 - (ii) With relevant examples discuss **FIVE** key Audit areas in the company that your team will focus on. **(10 Marks)**
 - (iii) Outline **FIVE** Occupational Safety and Health (OSH) measures that you will recommend to the company to improve the safety of workers. **(5 Marks)**
5. The National Government has proposed to extend the Standard Gauge Rail from Nairobi to Kisumu in the financial year 2017/2018.
 - (i) Identify **FIVE** social impacts that would be associated with the implementation of the project and clearly indicate how you will mitigate against them. **(10 Marks)**
 - (ii) Describe **HOW** you will carry out Social Impact Assessment for the above proposed project. **(10 Marks)**
6. Cleaner Production is an environmental management approach in which emphasis is on the elimination and/or reduction of waste rather than pollution control methods.
 - (i) Discuss the **SIX** key components of Cleaner Production. **(12 Marks)**
 - (ii) With relevant examples discuss **FOUR** benefits of adopting Cleaner Production in a horticultural farm. **(8 Marks)**