



**MASINDE MULIRO UNIVERSITY OF  
SCIENCE AND TECHNOLOGY  
(MMUST)**

MAIN CUMPUS  
MAIN EXAMINATIONS

UNIVERSITY EXAMINATIONS  
2018/2019 ACADEMIC YEAR

FOURTH YEAR SECOND SEMESTER EXAMINATIONS

FOR THE DEGREE  
OF  
BACHELOR OF SCIENCE IN AGRIBUSINESS  
MANAGEMENT/AGRICULTURAL ECONOMICS

**COURSE CODE:** SES 421

**COURSE TITLE:** ENVIRONMENTAL RISK ANALYSIS AND MANAGEMENT

**DATE:** 29/05/2019

**TIME:** 12-2 PM

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**INSTRUCTIONS TO CANDIDATES**

Answer ALL questions in section A and ANY TWO selected from section B

**TIME:** 2 Hours

MMUST observes ZERO tolerance to examination cheating

This paper consists of 2 printed pages. Please turn over

## **SECTION A (SHORT ANSWER QUESTIONS, 40 MARKS)**

- 1) Define
  - a. Hazard (2 marks)
  - b. Risk (2 marks)
  - c. Mitigation (1 mark)
  - d. Sustainable Development (2 marks)
- 2) Give at least four characteristics of environmental risk (4 marks)
- 3) Outline eight causes of environmental risks (4 marks)
- 4) Impact analysis can be broken down into three overlapping stages. Discuss (6 marks)
- 5) Outline the key steps necessary in conducting an environmental risk assessment (5 marks)
- 6) State four methods used for predicting characteristics of impacts (4 marks)
- 7) Discuss “zero tolerance” and “Best Practicable Means” as applied in risk evaluation (4 marks)
- 8) Highlight six characteristics of environmental impact (6 marks)

## **SECTION B (ESSAY QUESTIONS, 30 MARKS)**

- 9) As a programme manager in a local organization intending to carry out a project within Kakamega County, discuss the steps that would be undertaken in an impact assessment process before the project is approved for implementation (15 marks)
- 10) Critically discuss the types of environmental risks (10 marks)
- 11) Environmental impact assessment is guided by certain key principles. Discuss (15 marks)