



# MACHAKOS UNIVERSITY

University Examinations for 2018/2019 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

THIRD YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

BACHELOR IN ENVIRONMENTAL STUDIES & COMMUNITY DEVELOPMENT

BACHELOR OF SCIENCE IN COMMUNITY RESOURCE MANAGEMENT

ESU 300: ENVIRONMENTAL IMPACT ASSESSMENT AUDIT

DATE: 26/7/2019

TIME:8.30-10.30 AM

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## INSTRUCTIONS:

Answer question ONE and any other TWO questions

### QUESTION ONE (30 MARKS)

- a) Explain the following terminologies as used in Environmental Impact Assessment
- i. Adverse Impacts (2 marks)
  - ii. Mitigation measure (2 marks)
  - iii. Proponent (2 marks)
- b) i Explain any three (3) objectives of the Environmental Impact Assessment process (6 marks)
- ii Describe the three (3) types of environmental experts registered and regulated BY the National Environment Management Authority (NEMA) to spearhead environmental Impact Assessment in Kenya (6 marks)
- c) Explain the role of the National Environmental Management Authority in Environmental Impact Assessment in Kenya (6 marks)
- d) Describe the environmental rights provided for in the Kenya constitution 2010 article 42 (6 marks)

### QUESTION TWO (20 MARKS)

The National Irrigation Board has engaged you as an environmental expert to undertake an Environmental and Social Impact Assessment (ESIA) for the construction of a high capacity dam on River Twake in Kitui county

- a) Generate a suitable title for your assignment (2 marks)

- b) Describe the key components of your Environmental Impact Assessment (10 marks)
- c) Discuss any four (4) areas of human concern that you will address in your Environmental Impact Assessment (8 marks)

**QUESTION THREE (20 MARKS)**

Environmental Impact Assessment represents a systematic process that examines the environmental consequences of development activities. Outline the Environmental Impact Assessment process as it is systematically conducted in Environmental management

**QUESTION FOUR (20 MARKS)**

- a) Distinguish between an Environmental Impact Assessment (EIA) and Environmental Audit (EA) as tools of environmental management (10 marks)
- b) Explain the role of Environmental impact assessment in sustainable development (10 marks)

**QUESTION FIVE (20 MARKS)**

- a) Explain 5 reasons why proponents find it difficult to comply with the requirement to undertake an Environmental Impact Assessment before the commencement of their projects (5 marks)
- b) Explain the mandate of the National Environment Management Authority towards environmental protection and management. (15 marks)