



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

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)