



# MACHAKOS UNIVERSITY

University Examinations for 2016/2017 Academic Year

SCHOOL OF AGRICULTURE AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL STUDIES

FOURTH YEAR FIRST SEMESTER EXAMINATION FOR BACHELOR OF ENVIRONMENTAL STUDIES (ENVIRONMENTAL RESOURCE CONSERVATION)

ERC 402: ENVIRONMENTAL PROGRAMS DEVELOPMENT

DATE: 24/7/2017

TIME: 11:00 – 1:00 PM

---

**INSTRUCTIONS:** Answer Question **one** and any other **two** questions

1. a) Explain the meaning of the following terms in relation to environmental programs
  - i. Outcomes (3 marks)
  - ii. Outputs (3 marks)
  - iii. Monitoring (3 marks)
  - iv. Planning (3 marks)
  - v. Objectives (3 marks)
- b) Differentiate between a project and a program. (5 marks)
- c) Explain the importance of monitoring and evaluation in environmental conservation programs. (10 marks)
2. a) Explain Result-Based Management approach to environmental programs. (5 marks)
- b) Using appropriate examples, explain situational analysis in environment program development. (15 marks)
3. Describe the design stage in the planning phase of a programme cycle. (20 marks)
4. Explain five roles of a budget in an environmental programme cycle (20 marks)
5. Using the 'Problem tree' tool, explain problem analysis in a named environment program (20 marks)