



MACHAKOS UNIVERSITY

University Examinations for 2016/2017

SCHOOL OF AGRICULTURE AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL STUDIES

**FIRST YEAR FIRST SEMESTER EXAMINATION FOR
BACHELOR OF SCIENCE IN ENVIRONMENTAL RESOURCE CONSERVATION
BACHELOR OF SCIENCE IN COMMUNITY DEVELOPMENT**

EPM 111: ENVIRONMENTAL PLANNING AND MANAGEMENT

Date: 6/12/2016

TIME: 11-00 – 1:00 PM

INSTRUCTIONS:

Answer Question One and Any Other Two Questions

QUESTION ONE (COMPULSORY) (30 MARKS)

- (a) Explain the meaning of the following terms:
- (i) EMCA (1999) (5 marks)
 - (ii) Sustainable development (5 marks)
 - (iii) Land tenure (5 marks)
- (b) Outline any five [5] benefits of Environmental Audits. (5 marks)
- (c) Explain the five characteristics of a Goal as applied in Planning (5 marks)
- (d) Explain the mandate of NEMA (5 marks)

QUESTION TWO (20 MARKS)

- a) Describe how planning is different from management. (10 marks)
- b) Explain the “Polluter pays” principle as applied in Environmental Planning and Management. (10 marks)

QUESTION THREE (20 MARKS)

- a) Describe the “Hydrological Cycle” as it occurs in nature (10 marks)
- b) Explain any five anthropogenic activities that adversely affect the hydrological cycle. (10 marks)

QUESTION FOUR (20 MARKS)

- a) Explain any five (5) global environmental problems (10 marks)
- b) Distinguish between an Environmental Impact Assessment and an Environmental Audit (10 marks)

QUESTION FIVE (20 MARKS)

Mr. John Onyango was advised by his friend that he must conduct an EIA before starting work on his proposed five-storey residential building in Machakos town. Explain to Mr. John Onyango the critical components of an EIA. (20 marks)