



MACHAKOS UNIVERSITY

University Examinations for 2018/2019 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

SECOND YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF ENVIRONMENTAL STUDIES

EPM 244: WASTE MANAGEMENT PLANNING

DATE: 27/9/2019

TIME: 11.00-1.00 PM

INSTRUCTIONS:

Answer question ONE and any other TWO questions

QUESTION ONE (COMPULSORY – 30 MARKS)

- a) Explain the following concepts as used in waste management
- i. Polluter pays principle (2 marks)
 - ii. Waste disposal (2 marks)
 - iii. Waste hierarchy (2 marks)
 - iv. Cleaner production (2 marks)
 - v. Integrated waste management (2 marks)
- b) Discuss various factors to consider when developing a waste management plan (10 marks)
- c) Describe the socio and environmental effects of poor waste management (10 marks)

QUESTION TWO

In waste management, there are instruments used to regulate the handling and disposal of waste. Explain these instruments and the incentives that authorities use to enforce them (20 marks)

QUESTION THREE

As a newly recruited environmental officer, you have been assigned to give a talk on characteristics of hazardous waste. Highlight the key issues to be included in your key note speech (20 marks)

QUESTION FOUR

Explain the waste management policies and strategies that govern integrated waste management systems (20 marks)

QUESTION FIVE

Identify and discuss various waste management challenges and their possible solutions (20 marks)