



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY
SCHOOL OF BIOLOGICAL, PHYSICAL, MATHEMATICS AND ACTUARIAL
SCIENCES

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN
BIOLOGICAL SCIENCES

4th YEAR 1st SEMESTER 2022/2023 ACADEMIC YEAR

MAIN CAMPUS - REGULAR

COURSE CODE: SBB 1419
COURSE TITLE: ENVIRONMENTAL POLLUTION AND CONTROL
EXAM VENUE: ZOO LAB STREAM: (BSC)
DATE: 8/12/2022 EXAM SESSION: 9.00-11.00AM
TIME: 2 HOURS

Instructions:

- 1. Answer ALL questions in Section A and Any two questions in Section B**
 - 2. Candidates are advised not to write on question paper**
 - 3. Candidates must hand in their answer booklets to the invigilator while in the examination room**
-

SECTION A: SHORT ANSWER QUESTIONS (30 MARKS)

1. Explain the meaning of hazardous waste (3 marks)
2. Outline main sources of environmental pollution in the Kenyan today (3 marks)
3. Explain three conventions relevant to waste management (3 marks)
4. Describe the sustainable development goal relevant to pollution management (3 marks)
5. Name common types of pollution in urban settlements(3 marks)
6. Highlight six negative environmental and health effects of open dumping? (3 marks)
7. Outline three main challenges facing collection of hazardous wastes (3 marks)
8. Outline the main institutions in Kenya that would be suitable for JOOUST to collaborate with to manage its waste from laboratories to eliminate pollution of surrounding environment (3 marks)
9. Describe characteristics of e-wastes (3 marks)
10. Outline causes of aquatic pollution in Kenya. (3 marks)

SECTION B: ESSAY QUESTIONS (40 MARKS)

11. a) Critically analyse the principles of e-waste management (15marks)
b) List five methods for treating gaseous pollutants (5marks)
12. Discuss the different types of pollutants common in African countries. (20 marks)
13. a) Discuss the main causes of environmental pollution in Africa? (20 marks)
b) With relevant examples, give an account of management approaches for environmental pollution in Kenya. (20marks)
14. Discuss the highlights of waste management regulations 2006 as provided in EMCA 1999 (20marks)