



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE
PUBLIC & COMMUNITY HEALTH AND DEVELOPMENT
3RD YEAR 2ND SEMESTER 2023/2024 ACADEMIC YEAR
MAIN

COURSE CODE: HCB 1302

COURSE TITLE: ENVIRONMENTAL POLLUTION AND CONTROL

EXAM VENUE: STREAM: (BSc. Env Health)

DATE: EXAM SESSION:

TIME: 2.00 HOURS

Instructions:

- 1. Answer all the questions in Section A each contain 3 marks and ANY other two questions in Section B each contain 20 marks.**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

SECTION A- ANSWER ALL QUESTIONS (30 MARKS)

1. Explain the difference in the following:

- i. Poison-(1mk)
- i. Toxic-(1mk)
- ii. Toxin- (1mk)

2. Describe THREE factors influencing toxicity (3mks)

3. Describe THREE types of atmospheric pollution (3mks)

4. Explain THREE parameters that need to be selected in an ambient monitoring site. (3mks)

5. Describe THREE types of processes that affect air pollution levels (3mks)

6. Describe THREE types of polluted water (3mks).

7. Describe THREE major problems of environmental pollution (3mks).

8. Explain THREE characteristics that detection of water quality and various pollutants of water can be based on (3mks)

9. Explain THREE ways of controlling light pollution (3mks)

10. Describe THREE collection techniques employed for the particulate pollutants (3 mks)

SECTION B - ANSWER ANY TWO QUESTIONS FROM THIS SECTION

1. (i) Explain FIVE routes of poisoning (10mks)

(ii). Describe how poison quantity influences toxicity (5mks)

(iii) Describe the impact of greenhouse effect (5mks)

2.(i) Explain FIVE causes of Environmental Pollution (10mks)

(ii). Explain prevention of smoke and particulates in air pollution (10mks)

3. (i) Describe FIVE causes of Water Pollution (10mks)

(ii) Explain dose-effect relationship (10mk).

4(i). Describe FIVE systems of measuring water quality (10mks)

(ii). Explain how ozone layer gets depleted (10 mks)

