



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY

UNIVERSITY EXAMINATIONS APRIL 2020

**FOURTH YEAR SECOND SEMESTER END OF SEMESTER EXAM FOR THE DEGREE
OF BACHELORS IN COMMUNITY HEALTH AND DEVELOPMENT/PUBLIC HEALTH**

COURSE CODE: HPB 3323

COURSE TITLE: Environmental Pollution and Control

EXAM VENUE:

STREAM:

DATE:

EXAM SESSION:

TIME: 2 HOURS

INSTRUCTIONS:

- 1. THIS PAPER CONSISTS OF TWO SECTIONS A&B**
- 2. ANSWER ALL QUESTIONS IN SECTION A AND ANY OTHER 2 QUESTIONS IN SECTION B**
- 3. CANDIDATES ARE ADVISED NOT TO WRITE ON THE QUESTION PAPER.**
- 4. CANDIDATES MUST HAND IN THEIR ANSWER BOOKLETS TO THE INVIGILATOR WHILE IN THE EXAMINATION ROOM.**

SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION (30 Marks)

1. List six (6) types of environmental pollution based on the pathway of pollutants
2. Define 'Risk Assessment' as applied in environmental toxicology
3. Differentiate between pollution prevention and pollution control
4. Identify three benefits of prevention of environmental pollution
5. Explain three biologic effects that may result from combined exposure to toxic agents in human body.
6. Name any three examples of major outdoor air pollutants
7. Mention any six measures for poison prevention and control in a community
8. Identify six categories into which toxic substances can be classified
9. List three control measures for soil pollution
10. Identify any six sources of toxicities in the environment

SECTION B: ANSWER QUESTION ONE AND ANY OTHER ONE QUESTION IN THIS SECTION 20 MARKS EACH

1. Discuss any five measures that can help solve problems of environmental pollution in Kenya.
2. A manager of cement factory has requested you to advice on pollution prevention and control in the factory. Identify and explain in details the specific pollution prevention approaches that you will recommend.
3. a) What is the relationship between toxicokinetics and toxicodynamics in toxicology?
b) Identify and explain in details the processes that take place in toxicokinetics within human body
4. As a County Public Health Officer, the County Government of Nyeri has requested you to make a presentation to Environmental Officers on "Thermal Pollution". Describe the outline and contents of your presentation (20 Marks).