



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF HEALTH SCIENCES**  
**UNIVERSITY EXAMINATION FOR DIPLOMA IN COMMUNITY HEALTH AND**  
**DEVELOPMENT**  
**2<sup>ND</sup> YEAR 2<sup>ND</sup> SEMESTER 2015/2016 ACADEMIC YEAR**  
**KISII CAMPUS-PART TIME**

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**COURSE CODE:** HDC 2221

**COURSE TITLE:** ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY

**EXAM VENUE:** **STREAM: (BSc. Public Health/ Comm Htlh &Dev )**

**DATE:** **EXAM SESSION:**

**TIME: 2 HOURS**

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**INSTRUCTIONS:**

1. Answer All Questions in section A and ANY other 2 questions in section B
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**

1. Explain the meaning of following terms and concepts in Environmental health
  - i. Environment
  - ii. Hazard
  - iii. Risk(3 marks)
2. Highlight three main duties of Environmental health officers in preventing disease transmission (3 marks)
3. Outline three current challenges which Environmental health officers face in their practice in Kenya (3 marks)
4. Explain the key steps of risk management in Environmental Health (3 marks)
5. State and briefly explain any three pollution prevention methods (3 marks)
6. Identify the main components of the ecosystem and their possible interactions (3 marks)
7. Explain three principles of Occupational Health and Safety as emphasized by the World Health Organization (3 marks)
8. Explain the importance of toxicology in occupational health and safety (3 marks)
9. State any three pieces of legislation that govern Occupational Safety and Health services in Kenya (3 marks)
10. Explain the role of Non-governmental Organizations in Environmental Health protection in developing countries (3 marks)

## **SECTION B: ANSWER ANY TWO QUESTIONS**

1. Discuss how interactions between human activities, the physical and biological environment influence health (20 marks)
2. Discuss the key actions which can be undertaken at all in workplaces to ensure that employees are safe from injuries and occupational diseases. (20 marks)
3. Discuss the causes, effects and prevention of the following ecological changes:
  - i. Global warming
  - ii. Ozone depletion
  - iii. Climate change
  - iv. Acid precipitation(20 marks)
4. Explain the role of governments in Environmental Health protection (20 marks)