



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF HEALTH SCIENCES**  
**UNIVERSITY EXAMINATION FOR BACHELORS DEGREE IN ENVIRONMENTAL**  
**HEALTH/ COMMUNITY HEALTH AND DEVELOPMENT**  
**1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER 2023/2024 ACADEMIC YEAR**  
**MAIN**

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**COURSE CODE: HCB 1101**

**COURSE TITLE: FUNDAMENTALS OF ENVIRONMENTAL HEALTH**

**EXAM VENUE: STREAM: (BSc. Env. Hlth / Comm Hlth & Dev)**

**DATE: EXAM SESSION:**

**TIME: 1.30 HOURS**

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**Instructions:**

- 1. Answer all the 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 (30 MARKS)**

1. Explain with examples the following terms
  - a. Prevalence (2 marks)
  - b. Incidence (2 marks)
  - c. Endemic (2 marks)
  - d. Epidemic (2 marks)
  - e. Sporadic (2 marks)
  - f. Epidemiology (2 marks)
2. Explain the importance of sanitary facilities in food and drink establishments (3 marks).
3. Explain three components of under nutrition starting with the word 'low' in each (3marks)
4. Explain the concept of unsuitable housing in relation to health (3marks)
5. Describe the first THREE of the four level prevention approaches (3marks)
6. Explain how poverty contributes to ill health (3 marks)
7. Explain the concept of environmental health according to WHO (3 marks)

## **SECTION B (40 MARKS)**

1. Describe the mode of transmission of beef tape worm (taeniasis) **(20 marks)**.
2. Explain the following classifications of diseases caused by water **(20 marks)**
  - a. Water borne diseases
  - b. Water washed diseases
  - c. Water related diseases
  - d. Water based diseases
3. Explain the mode of transmission of schistosomiasis (bilharzia) **(20 marks)**
4. Explain why more women suffer from diabetes mellitus compared to men **(20 marks)**.