



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**SCHOOL OF HEALTH SCIENCES**

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE**

**PUBLIC HEALTH**

**1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER 2024/2025 ACADEMIC YEAR**

**MAIN/KISUMU CAMPUS**

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**COURSE CODE:**

**HCB 1101**

**COURSE TITLE:  
HEALTH**

**FUNDAMENTALS OF ENVIROMENTAL**

**EXAM VENUE:LAB 16**

**STREAM: BSc Public/ Comm. Hlth & Dev**

**DATE:15/1/25**

**EXAM SESSION: 14-16.00 HRS**

**TIME: 2.00 HOURS**

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**Instructions:**

- 1. Answer all the questions in Section A and 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 (30 MARKS). EACH QUESTION HAS 3 MARKS**

1. Explain the humoral theory of disease.
2. Describe THREE main reasons that make drug-resistant tuberculosis a public health concern.
3. Explain how poor housing impacts mental health.
4. Explain how poor housing impacts mental health.
5. Describe THREE ways of how poor water access affects rural communities.
6. Explain the importance of vaccinations in public health.
7. Explain the difference between incidence and prevalence.
8. Explain the role of secondary prevention in disease control.
9. Explain the role of vaccination in public health.
10. Explain THREE ways of how global migration impacts public health.

**SECTION B - ANSWER ANY TWO QUESTIONS FROM THIS SECTION**

- 1i) Explain FIVE ways of how technological advancements are transforming public health.(10 mks)
- ii) Explain FIVE ways that show cultural factors influence and public health interventions (10 mks)
- 2i) Explain FIVE relationships between climate change and public health.(10 mks)
- ii) Explain FIVE key points in the role of occupational health programs in managing workplace-related stress.(10mks)
- 3i) Explain how environmental control programs contribute to waterborne disease prevention.(10mks)
- ii) Describe the FIVE key strategies used by adolescent and youth programs to promote reproductive health.(10mks)
- 4i) Explain how access to clean water and proper sanitation can improve public health.(10mks)
- ii) Explain how inadequate sanitation contributes to the spread of infectious diseases.