



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF HEALTH SCIENCES**  
**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE**  
**PUBLIC HEALTH/COMMUNITY HEALTH AND DEVELOPMENT**  
**4<sup>th</sup> YEAR 2<sup>nd</sup> SEMESTER 2018/2019 ACADEMIC YEAR**  
**KISUMU CAMPUS**

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**COURSE CODE: HCD 3221**

**COURSE TITLE: DRAINAGE AND CONSERVANCY**

**STREAM: BSC. PUBLIC/COMM.HLTH & DEV**

**DATE:---**

**EXAM SESSION: --**

**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**

1. Define the term health according to WHO (1 mark)
2. Define the term drain (1 mark)
3. Explain the term drainage system (3 marks)
4. Explain the term conservancy (3 marks)
5. Define the term sewer (1 mark)
6. Explain the term soil water (3 marks)
7. Define the term sewerage system (1mark)
8. State three advantages of one pipe system (5 marks)
9. State the difference between one pipe system and two pipe system (4 marks)
10. Explain the term water-born sanitation (4 marks)
11. Explain the difference between a soak-pit and a septic tank (4 marks)

## **SECTION B**

1. Explain the principles of sound drainage (20 marks)
2. Describe the requirements and construction of a pit latrine (20 marks)
3. Describe how one would control cholera which is one of the diseases transmitted through contaminated environment. (20 marks)
- 4.
5. Explain the various methods of excreta disposal and their merits and demerits (20 marks)