



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
COMMUNITY HEALTH AND DEVELOPMENT
3rd YEAR 2nd SEMESTER 2018/2019 ACADEMIC YEAR
KISII CAMPUS.

COURSE CODE: HCD 3324

COURSE TITLE: COMMUNITY WATER SUPPLY AND SANITATION.

EXAM VENUE: STREAM: BSc Community Health and Development

DATE: EXAM SESSION:

TIME: 2.00 HOURS

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. (30MARKS)

1. Define the following terms. (4marks).

- a. Water resource
- b. Water allocation
- c. Percolation
- d. Hydrological cycle

2. Differentiate between the following terms. (6marks).

- a. Waterborne and water washed diseases
- b. Water based diseases and water related vector diseases.

3. Outline 5 Major Characteristics of good drinking water. (5marks).

4. Briefly describe 5 factors that you do consider when selecting an appropriate water treatment plant. (5marks).

5. Describe 3 major sources of water outlining two advantages and disadvantages in each case. (6marks).

6. Outline four importance of sanitation in public domain. (4marks).

SECTION B. (40MARKS)

6. a. Describe the processes in the hydrological cycle. (12marks).

b. Discuss the methods of human waste and refuse disposal. (8marks).

7. Discuss various water quality control analysis that are basically conducted to ensure water safety to the public. (20marks).

8. a. Briefly outline various types of water pollution based on the source. (10 marks).

b. Outline briefly the major attributes of water to the public. (10marks).

9. a) Discuss the Community factors you will consider in selecting water technology (10 marks)

b) Kenya is ranked as a water scarce country. Discuss the causes of water scarcity in Kenya (10 marks)