



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR BACHELOR OF SCIENCE IN COMMUNITY
HEALTH AND DEVELOPMENT
3RD YEAR 2ND SEMESTER 2018/2019 ACADEMIC YEAR
KISUMU CAMPUS

COURSE CODE:	HCD 3324
COURSE TITLE:	Community Water Supply & Sanitation
EXAM VENUE:	STREAM: (BSc Comm Hlth &PH)
DATE:	EXAM SESSION:
TIME:	2.00 HOURS

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: ANSWER ALL QUESTIONS (30 MARKS)

1. Briefly explain the following used in community water supply (3 marks)
 - a) Biochemical oxygen demand
 - b) Water surveillance
 - c) Ecological sanitation
2. Outline the characteristics of a good water treatment chemical (3 marks)
3. Outline the role of communities in improving water and sanitation (3 marks)
4. List any 6 factors influencing willingness to pay for water services in a community (3 marks)
5. Briefly explain the importance of waste water treatment (3 marks)
6. State 3 advantages of using alum in water treatment (3 marks)
7. Briefly explain any 2 methods of water analysis (3 marks)
8. State the influencers of water quality (3 marks)
9. State any 6 requirements of drinking water (3 marks)
10. State 3 factors influencing water supply criteria (3 marks)

SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)

1.
 - a) Discuss any four strategies the Kenyan government is putting in place to achieve sustainable development goal 6 (marks)
 - b) Discuss the governance issues in water and sanitation (12 marks)
2.
 - a) Discuss any 2 household methods of water treatment (10 marks)
 - b) Discuss any two factors to be considered in the selection of water source technology (10 marks)
3.
 - a) Discuss the criteria of an efficient water distribution system (10 marks)
 - b) Outline the differences between conservancy and water carriage system in sanitation (10 marks)
4.
 - a) Discuss the mitigation strategies for water scarcity in Kenya (10 marks)
 - b) Challenges currently facing water and sanitation sector in Kenya (10 marks)