



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY  
SCHOOL OF HEALTH SCIENCES**

**UNIVERSITY EXAMINATION FOR DIPLOMA IN COMMUNITY HEALTH AND DEVELOPMENT**

**2<sup>ND</sup> YEAR 1<sup>ST</sup> SEMESTER**

**2019/2020 ACADEMIC YEAR**

**KISII CAMPUS**

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**COURSE CODE: HDC 2215**

**COURSE TITLE: COMMUNITY WATER SUPPLY**

**EXAM VENUE: ROOM 18                      STREAMS: (Dip. Comm Health &Dev)**

**DATE: AUGUST , 2019**

**EXAM SESSION:**

**TIME: 1.5 HOURS**

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**Instructions:**

- 1. Answer all 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 in this section compulsory)*

1 Describe six conditions that may affect the continuous or uninterrupted supply of water in your sub-county (3mks)

2 (a) List down the recommended levels of colour and turbidity accepted in water meant for human consumption (2mks)

(b) Name any two harmful chemicals sometimes found in drinking water (1mk)

3 Water quality may deteriorate in the piping system. List the factors that may contribute to this act (2mks)

4 Describe two types of water systems that supply water under pressure for town dwellers (2mks)

5 What do you understand by the term “a water supply system”? Explain ( 3mks)

6 (a) What is “ a dry tap” as used in community water supply? (1mk)

(b) List down any four means how water becomes contaminated in the community (2mks)

(c) Water quality may deteriorate in the piping system. List the factors that may contribute to this act (2mks)-

7 (a) what are the advantages of laying the water pipes deep in the trenches in the ground in the water delivery system ? (2mks)

(b) Mention two critical times when to wash hands apart from *before eating, after cleaning patient, after defecating in the latrine , before touching body fluids* (2mks)

8 (a) Write in full the acronym PVC as used in water supply (1mk)

(b) Mention two advantages of PVC water pipes over Galvanized Iron water pipes (2mks)

9 Name the common sources of tap water in Kisumu city (2mks)

10 (a) By giving examples, outline any four forms of water pollution (2mks)

(b) Distinguish between water contamination and water pollution (1mk)

**SECTION B** (*Answer any two questions*)

- 1 Water used by all community members need to be treated before use. Explain the water treatment process in Kenya (15 mks)
  
- 2 Explain the procedure of ensuring that a hand dug well is provided protected and maintained by a selected community (15mks)
  
- 3 Describe the procedure you as a Community Health Development Officer may follow to protect an unprotected spring of water in your area of work. (15mks)
  
- 4 (a) Explain in detail how best to boil your drinking water (7mks)
  
- (b) State and describe any three reasons which will make you boil your drinking water (8mks)