

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

# UNIVERSITY EXAMINATION FOR –DIPLOMA IN COMMUNITY HEALTH AND DEVELOPMENT

#### 2ND YEAR 1ST SEMESTER 2016/2017 ACADEMIC YEAR

#### **KISUMU LEARNING CENTER**

COURSE CODE:	HDC 2215
COURSE TITLE:	COMMUNITY WATER SUPPLY
EXAM VENUE:	STREAM:
DATE:	EXAM SESSION
TIME:	1½ HOURS

### **Instructions:**

- 1. Answer all questions in section A (Compulsory) 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 1: 30 MARKS (ANSWER ALL QUESTIONS)**

- 1. Briefly explain the following concepts
  - a) Water quality analysis (1 mark)
  - b) Total dissolved solids (1 mark)
  - c) Environmental sanitation (1 mark)
- 2. Briefly explain three uses of water (3 marks)
- 3. State any 3 sources of rain water pollution (3 marks)
- 4. List any 6 factors influencing water demand for a household (3 marks)
- 5. Briefly explain the importance of monitoring water supplies in the community (3 marks)
- 6. State three factors influencing water supply criteria (3 marks)
- 7. State any 3 methods of domestic water storage (3 marks)
- 8. State 3 advantages of rain water harvesting (3 marks)
- 9. Differentiate between water borne and water washed diseases (3 marks)
- 10. Describe the global distribution of fresh water (3 marks)

#### **SECTION B: 30 MARKS (ANSWER ANY 2 QUESTIONS)**

- 1. Discuss 5 mitigation strategies for water related diseases in your county (15 marks)
- 2. With an aid of a diagram, discuss the water requirement hierarchy (10 marks)
- b) Describe the role of excreta in the spread of diseases (5 marks)
- 3. a) Define water surveillance stating examples (3 marks)
- b) Discuss in detail the physical analysis of water (12 marks)
- 4. Discuss in detail any 3 methods of water treatment (15 marks)