

**JOUST  
KISII LC**

**UNIVERSITY EXAMINATION**

**APRIL 2014**

**HDC 2215 COMMUNITY WATER SUPPLY**

**DIPLOMA IN COMMUNITY HEALTH DEVELOPMENT**

**ANSWER ALL QUESTIONS IN SECTION A AND ANY TWO IN SECTION B.**

**SECTION A (30 MARKS)**

- 1(a) Three – fourth of the earth’s surface is covered by water and yet there is a global shortage of water. Explain and give reasons for the shortage. (6 mks)
- (b) Describe the three major sources of water supply for the community (6 mks)
2. Differentiate between the following terms as used in community water supply
- (i) Waterborne diseases (4 mks)
- (ii) Water – washed diseases (4 mks)
3. Describe the system components of rainwater harvesting (4 mks)
- (6mks)
4. Differentiate between a shallow dug well and a Borehole (6mks)

**SECTION B ( 30 MARKS)**

1. Discuss the steps used in sampling water from a well. (15mks)
2. (a) Highlight the objectives of water treatment before supplied to the community for domestic use. (10mks)
- (b) Explain how water quality surveillance is done (5mks)
3. Discuss the various ways in which domestic water becomes contaminated (15mks)
4. a. Highlight the advantages and disadvantages of the following water storage tanks:
- i. Metal sheet tank (4 mks)
- ii. Plastic tank (4 mks)
- b. Describe the hygienic practices used to maintain a water storage tank (7 mks)