



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND
TECHNOLOGY**
UNIVERSITY EXAMINATIONS 2012/2013
**2ND YEAR 2ND SEMESTER EXAMINATIONS FOR DIPLOMA IN
COMMUNITY HEALTH AND DEVELOPMENT**
(KISUMU LEARNING CENTRE)

COURSE CODE: HDC 2221

**COURSE TITLE: ENVIRONMENTAL HEALTH AND OCCUPATIONAL HEALTH &
SAFETY**

DATE: 22/4/2013

TIME: 11.00-13.00PM

DURATION: 1.5 HOURS

INSTRUCTIONS

1. This paper contains TWO sections.
2. Answer ALL questions in section A (Compulsory) and ANY other Two questions in section B.
3. Write all answers in the booklet provided

SECTION A: Answer ALL QUESTIONS in this section

1. **Highlight** any three ways in which food may become contaminated. (3 marks)
2. **Give** three possible sources of water contamination. (3 marks)
3. **Elaborate** the meaning of the following; (i) water-borne disease, (ii) water-washed disease, and (iii) water-related disease (3 marks)
4. Besides each of the following diseases, **indicate** whether it is
 - a. water-borne
 - b. water-washed
 - c. water-relatedamoebiasis: -----
malaria: -----
typhoid: -----
scabies: -----
onchocerciasis: -----
hepatitis: ----- (3marks).
5. **Suggest** three ways the villagers might cleanse and purify the dirty water they are drawing from the pond so that it is safe to drink. (3 marks)
6. **Explain** how you would dispose of refuse at your health centre. (3 marks)
7. **State** any six global common environmental issues, which will require coordinated mitigation actions among nations of the world. (3 marks)
8. **Describe** three roles of environmental health officers. (3 marks)
9. **Define** the term “environmental health”. (3 marks)
10. **Identify** any three classification types (categories) of occupational health hazards at work place. (3 marks)

SECTION B: Answer ANY TWO QUESTIONS in this section

Q1. Discuss personal hygiene measures that are applicable to promotion of health in respect of; -

- (a) Housing and sanitation (4 marks)
- (b) Water sources and supply (4 marks)
- (c) Waste and refuse management (4 marks)
- (d) Food and food hygiene. (4 marks)
- (e) Vectors and vector control (4 marks)

Q2. It is important to take a considerable concern in the process of excreta disposal.

- (a) Define the term “excreta”. (2 marks)
- (b) Name any six diseases that can be spread from faeces. (3 marks)
- (c) Identify any four methods of excreta disposal and in each state an advantage and a disadvantage. (6 marks)
- (d) With the help of a diagram, describe a pit latrine indicating its dimensions and its optimum location in respect to (i) the nearest water source, (ii) the nearest house, and (iii) sloping land. (9 marks)

Q3. Discuss the major environmental components and their effects on health. (20 marks)

Q4. Discuss the major categories of occupational health hazards applicable to the working environment. (20 marks)