JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

PUBLIC HEALTH/COMMUNITY HEALTH AND DEVELOPMENT

2ND YEAR 1ST SEMESTER 2018/2019 ACADEMIC YEAR

NAMBALE / KISUMU CAMPUS

COURSE CODE: HCD 3215

COURSE TITLE: ENVIRONMENTAL HEALTH

EXAM VENUE: STREAM: BSc Public/Comm. Hlth & Dev

DATE: 17/4/19 EXAM SESSION 3.00 – 5.00PM

TIME: 2 HOURS

Instructions:

1. Answer ALL questions in Section A and TWO 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 (30 Marks): Answer ALL questions

1. Explain the following:

i. Environment (2 Marks)

ii. Environment pollutant (2 Marks)

iii. Environment Health (2 Marks)

2. Describe Acaricides by giving their functions (2 marks).

3. Distinguish the difference between a health risk and a health hazard (4 Marks).

4. Outline principles of environmental epidemiology (3 Marks).

5. Explain why we study environmental health (4 Marks).

6. Explain two functions of environmental law (2Marks).

7. Define toxicology (2 Marks).

8. Describe factors affecting effects of ionizing radiation (3 marks).

9. Explain the context of clinical ecology (2 marks).

10. Cutting down forests (deforestation) is one of the causes of climate change. Explain (2 Marks).

SECTION B (40 Marks): Answer TWO questions

11. Water pollution is a global challenge. Discuss sources of water pollution and their health impacts (20 Marks).

12. (a) Define toxicokinetics (2 Marks).

(b) Describe the process in toxicokinetics (18 Marks).

13. Discuss the principle of toxic waste management (20 Marks).

14. (a) Explain the concept of Environmental Partitioning and state its goals (10 marks).

(b) Discuss the steps in chemical risk assessment (20 marks).

15. Write short notes on bio-test by explaining what they are, advantages and disadvantages, and highlight types of bio-tests currently of importance in relation to reuse of water (20 marks).