

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

UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE PUBLIC HEALTH / COMMUNITY HEALTH AND DEVELOPMENT

2^{ND} YEAR 2^{ND} SEMESTER 2023/2024 ACADEMIC YEAR

MAIN CAMPUS

COURSE CODE: HCB 1202

COURSE TITLE: DRAINAGE AND CONSERVANCY

EXAM VENUE: STREAM: (BSc. Env. Hlth)

DATE: EXAM SESSION:

TIME: 2.00 HOURS

Instructions:

- 1. Answer all the 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 30

- 1. Describe THREE signs and symptoms of cholera that will enable you to identify the disease. (3 marks)
- 2. Explain THREE environmental hazards that are contributed to because of improper disposal of human excreta. (3 marks)
- 3. Explain THREE circumstances where the concept of open field defecation can be accepted for use. (3 marks)
- 4. Explain briefly why it is important to neatly pile the earth that was removed from digging the hole for shallow trench latrine. (3 marks)
- 5. State the three advantages of using deep trench latrines in our communities at any given time. (3 marks)
- 6. Explain THREE situations where the use of borehole latrines are most appropriate and recommended. (3 marks)
- 7. State the three major contributing risk factors to environmental disease burden in the continent that are traditional environmental health hazards. (3 marks)
- 8. State the emergence of Modern Environmental Health Hazards and its content. (3 marks)
- 9. Explain briefly the way Helminth infections are transmitted from infected person to another person. (3 marks)
- 10. State three ways by which soil transmitted helminths impair the nutritional status of the people they infect in multiple ways. (3 marks)

Section B 40 Marks

- 1. Assume that you are on your final field attachment in you rural home county and a client come to the office and applied for inspection and guidance for her residential house under construction and you found and omission and you advised her to include septic tank in her plan and she requested you to design and draw supervise for her that important aspect of the building on private consultancy engagement terms which you accepted. Describe clearly with the aid of cross sectional diagram of a double chamber septic tank that you recommended for her house, focus on the functioning and maintenance of this facility.
- 2. Imagine that you have graduated with Bsc. in Public Health from JOOUST and secured internship in an eventful public health office with National Government. An investor come to the office for public health consultation and guidance concerning methods of excreta disposal for their establishment and you recommended for them chemical closet (toilets) because of the nature of their business. Explain clearly why you recommended for them chemical closet (toilet) to be the most appropriate focusing construction, functions/ applications, advantages and disadvantages (20 Marks).
- 3. Assume that you went back your rural home after attaining some level of training and you felt that you needed to advise your parents so that you come up with a new VIP latrine based on the benefits that associated with it since the one that has been serving your family in the past is getting filled up very soon. Describe clearly the way you will convince your parents to accept to spend more resource to construct this type of latrine as opposed to others focusing on its construction, function and unique part of it and advantages and disadvantage these should be supported by used of a well labeled diagram (20 Marks).