



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

**DECEMBER, 2018 UNIVERSITY EXAMINATION FOR DIPLOMA IN COMMUNITY  
HEALTH AND DEVELOPMENT**

**1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER 2018/2019 ACADEMIC YEAR**

**NAMBALE CAMPUS**

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**COURSE CODE: HCD 2113**

**COURSE TITLE: WASTE MANAGEMENT**

**EXAM VENUE: NAMBALE                      STREAM: (Dip.Comm Hlth & Dev/Public Health)**

**DATE:    EXAM SESSION:**

**TIME: 1 ½ HOURS**

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**Instructions:**

- 1. Answer all questions in section A, and any other 2 questions in section B**
- 2. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

**SECTION A; (30mks)**

1. Differentiate between Grey and black water as used in liquid waste management with Examples.(4mks)
2. Outline the two major classes of solid wastes with examples. (6mks)
3. Briefly describe the following types of liquid waste; Sanitary, industrial, storm and mixed sewage.(6mks)
4. State five public health importance of liquid waste management. (5mks)
5. Discuss the Secondary stage of sewage treatment. (6mks)
6. Describe the three “R”s of waste hierarchy (3mks)

**SECTION B; Essays (30mks)**

1. Discuss the public health significance of waste management.(15mks)
2. Discuss the common waste disposal methods.(15mks)
3. Briefly explain the following steps as used in the management of waste in a hospital set-up;
  - i) Waste segregation and waste collection
  - ii) Waste storage and disposal.

(15mks)
4. Discuss waste management under the following sub headings
  - a) Definition (2mks)
  - b) The pyramid of waste management (10mks)
  - c) Economic, social and environmental benefits of waste management.(3mks)