



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR THE DIPLOMA COURSE IN SCIENCE

PUBLIC HEALTH/COMMUNITY HEALTH AND DEVELOPMENT

1ST YEAR 1ST SEMESTER 2018/2019 ACADEMIC YEAR

KISUMUCAMPUS

COURSE CODE: HDC 2113

COURSE TITLE: WASTE MANAGEMENT

EXAM VENUE: STREAM: Dip in Public/Comm. Hlth &Dev

DATE: 13/08/19 EXAM SESSION: 9.00 – 10.30AM

TIME: 2.00 HOURS

Instructions:

- 1. Answer all the questions in Section A and 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.**

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Section A: Answer all questions in this section (30 mrks)

1. Define Waste Management (3mrks)
2. Discuss the three levels of the hierarchy of solid waste management? (9mrks)
3. Define the term source reduction (2mrks)
4. What do we call the process of burning municipal solid waste in a properly designed furnace under suitable temperature and operating conditions? (1mrk)
5. Briefly discuss how individuals, families and manufacturers can participate in source reduction (10mrks)
6. Briefly discuss the following in relation to waste management (5mrks)
 - i. Pyrolysis
 - ii. Resource recovery

Section B: Answer any two questions from this Section (30mrks)

1. Discuss five benefits of Waste management (15 mrks)
2. Discuss the possible challenges of waste management in the developing countries (15 mrks)
3. Outline the Waste management hierarchy giving examples where necessary (15mrks)
4. Waste Management processes are becoming more efficient but no matter how efficient they become, there will be some amount of waste needing landfills. People can however greatly reduce this amount by becoming aware of how they contribute to the solid waste problem and by changing their habits. Discuss. (15 mrks)