



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR BACHELOR OF SCIENCE IN COMMUNITY
HEALTH AND DEVELOPMENT
1st YEAR 2nd SEMESTER 2018/2019 ACADEMIC YEAR
E-LEARNING

COURSE CODE: HCD 3122

COURSE TITLE: Waste Management and Sanitation

EXAM VENUE: STREAM: (BSc Comm Hlth & Dev)

DATE: EXAM SESSION: 9am- 11 am

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: ANSWER ALL QUESTIONS (30 MARKS)

1. List any 3 benefits and draw backs of landfills (3 marks)
2. State the characteristics of hazardous waste (3 marks)
3. Briefly explain any three ways used to reduce the amount of items entering the waste stream (3 marks)
4. Outline the main sources of solid waste (3 marks)
5. State the characteristics of waste for suitable for incineration (3 marks)
6. Briefly explain the factors that determine the generation of waste (3 marks)
7. State any 6 sources of hazardous waste (3 marks)
8. Enumerate the economic aspect of waste management (3 marks)
9. Outline the principles of landfilling (3 marks)
10. Briefly explain the criteria for selection of excreta disposal method (3 marks)

SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)

1. i. Discuss effects of waste on the following
 - a) Animals and aquatics life (5 marks)
 - b) Environment (5 marks)
 - c) Health (5 marks)ii. Explain the role factors influencing the choice of waste management option (5 marks)
2. a) Discuss the two main classifications of solid waste (10 marks)
b) Discuss the challenges facing developing countries in effective management of e-waste (10 marks)
3. a) Outline the desirable methods of waste disposal (15 marks)
b) Outline the socio-economic aspect of solid waste (5 marks)
4. a) Discuss the challenges of handling electronic waste in developing (10 marks)
b) Discuss any two desirable treatment and disposal methods of health care waste (10 marks)