



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF PUBLIC
HEALTH
4thYEAR 2ND SEMESTER 2015/2016 ACADEMIC YEAR
KISII CAMPUS-PART TIME

COURSE CODE: HPD 3122

COURSE TITLE: WASTE MANAGEMENT

EXAM VENUE:

STREAM: (BSC)

DATE:

EXAM SESSION:

TIME: 2 HOURS

Instructions:

- 1. Answer Question ONE (COMPULSORY) and ANY other 2 questions**
- 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

1. Explain three characteristics of solid waste (3mks)
2. Explain three solid waste treatment and disposal (3mks)
3. Illustrate the design of extra disposal system in rural areas (3mks)
4. Explain the procedure of disposal of dead animals caused by highly infection diseases (3mks)
5. Explain the meaning of the following terms (3mks)
 - i. Anaerobic
 - ii. Facultative
 - iii. Maturation ponds
6. State any three processes involved in sewage sludge treatment (3mks)
7. Explain the following terms as used in waste management (3mks)
 - i. Composting
 - ii. Digesting
 - iii. Recycling
8. Briefly explain percolating filters (3mks)
9. Explain the suitability and application of stabilization ponds (3mks)
10. Identify the river pollution techniques (3mks)

SECTION B

1. Discuss in details mechanism and process of industrial waste treatment (20mks)
2. Discuss the operation and advantages of landfills as a method of waste disposal (20mks)
3. Discuss in details the waste management techniques (20mks)
4. Discuss with examples the transmission, design and construction of excreta disposal methods (20mks)