



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF HEALTH SCIENCES**  
**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF PUBLIC**  
**HEALTH**  
**1<sup>ST</sup> YEAR 2<sup>ND</sup> SEMESTER 2018/2019 ACADEMIC YEAR**  
**KISII CAMPUS-PART TIME**

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**COURSE CODE: HCD 3122**

**COURSE TITLE: WASTE MANAGEMENT**

**EXAM VENUE:**

**STREAM: (BSC )**

**DATE:**

**EXAM SESSION:**

**TIME: 2 HOURS**

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**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.**

## **QUESTION ONE**

- 1 .a Briefly explain guidelines involved in disposal of corpse and dead animals -3mks
- b Explain the design of pit latrines as a means of excreta disposal in rural areas -3mks
- c. Explain briefly any three heavy metals and their effects found in industrial liquid waste -3mks
- d .Explain the impacts of solid wastes -3mks
- e. What's API separator? .Explain its working mechanism -3mks
- f. Explain percolating filters -3mks
- g. Explain brine treatment method. -3mks
- h. Explain the following terms -3mks
  - (1). Landfilling
  - (ii). Composting
  - (iii). Burying
- I explain lagoon as a method involved in secondary treatment of waste.- 3mks
- j. Explain the waste stabilization ponds -3mks

PART B.

ANSWER ANY TWO QUESTIONS (40mks)

1. Discuss in detail the public health transmissions, design and construction of excreta disposal methods -20mks
2. Discuss the industrial waste water treatment -20mks
3. Discuss mechanism of activated sludge and its disposal methods -20 mks
4. Discuss in detail processes involved in sewage treatment -20mks