



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF SPATIAL PLANNING
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN
WATER RESOURCES AND ENVIRONMENTAL MANAGEMENT
YEAR TWO SEMESTER II 2018/2019 ACADEMIC YEAR**

CENTRE: MAIN CAMPUS

COURSE CODE: PES 3224

COURSE TITLE: POLLUTION PROCESSES IN TROPICAL ECOSYSTEMS

EXAM VENUE: STREAM: WATER RES & ENV MGT

DATE: 2/5/19 EXAM SESSION: 12.00 – 2.00PM

TIME: 2 HOURS

Instructions:

- 1. Answer question 1 (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

- a. What is Pollution and what can we do about it? [5 marks]
- b. Outline any five major air pollutants you know[5marks]
- c. Explain any five known Impacts of e-waste on the environment and human health[5 marks]
- d. Briefly explain any five objectives of waste water treatment [5 marks]
- e. Explain the chemical changes that take place in a water body that is under Eutrophication[10 marks]

Question 2

With appropriate and concrete examples discuss the waste management hierarchy [20 marks]

Question three

Discuss the major anthropogenic impacts on ecosystem degradation recommending remedial interventions where necessary [20 marks]

Question four

With concrete examples discuss the merits and demerits of Solid Waste Management (SWM) strategies [20 marks]

Question five

Discuss Climate Change with respect to Air Pollution and Ozone layer depletion. [20 marks]