



JARAMOGI OGINGA

ODINGA UNIVERSITY OF

SCIENCE AND TECHNOLOGY

**SCHOOL OF BIOLOGICAL, PHYSICAL, MATHEMATICS AND ACTUARAL
SCIENCES**

**UNIVERSITY EXAMINATION FOR THE AWARD OF A DEGREE OF MASTERS
IN PLANT ECOLOGY**

1ST YEAR 1ST SEMESTER 2023/2024 ACADEMIC YEAR

MAIN CAMPUS-REGULAR

COURSE CODE: SBT 819

COURSE TITLE: EUTROPHICATION AND

POLLUTION

YEAR OF STUDY: I SEMESTER: II

EXAM VENUE:

STREAM: (MSC)

DATE:

EXAM SESSION:

TIME: 3 HOURS

INSTRUCTIONS:

- 1. Answer all questions in section A and Any two questions in section B**
- 2. Candidates are advised not to write on question paper**
- 3. Candidates must hand in their booklets to the invigilator while in the examination room**

SECTION A: Answer ALL the questions (20 MARKS)

1. (a) Explain the following concepts as applies in the study of plant ecology:
(i) Environmental degradation
(ii) Eutrophication
(iii) Biological magnification

(12 Marks)

- (b) Explain the causes of marine pollution.

(8marks)

SECTION B (40 MARKS) Answer ANY TWO Questions

2. Discuss the characteristics of biological indicators of pollution. **(15 Marks)**
3. Discuss the causes and the process of eutrophication of aquatic ecosystems. **(15 Marks)**

4. Give an account of different categories of impacts of eutrophication. **(15marks)**
5. You have been appointed as the Cabinet Secretary in charge of environment, Climate Change and Natural Resources. Give an outline of measures you would implement as pollution and eutrophication management strategies. **(15 Marks)**