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**UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR**

**SECOND YEAR SECOND SEMESTER
SUPPLEMENTARY/SPECIAL EXAMINATIONS**

FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY

COURSE CODE: SZL 221

COURSE TITLE: AQUATIC ECOLOGY

DATE: 9TH AUGUST 2023

TIME: 8.00 AM

INSTRUCTIONS TO CANDIDATES

Answer Question one (1) and any other two (2) Questions. Question one is compulsory and carries 30 marks, the other Questions carry 20 marks each.

TIME: 2 Hours

QUESTION ONE

- a) Define the following terms **(10 marks)**
- i) Physiological adaptation
 - ii) Aquatic productivity
 - iii) Limnology
 - iv) Aquatic organisms
 - v) Ecological principles
- b) Outline the factors that affect habitat quality **(5 marks)**
- c) Differentiate between oceanography and limnology **(5marks)**
- d) Explain the importance of nutrient loading to aquatic ecosystems **(5 marks)**
- e) Outline ways of restoring stream habitat **(5 marks)**

QUESTION TWO

Discuss ways that humans affect aquatic ecosystems **(20 marks)**

QUESTION THREE

Discuss the factors that change the distribution of water abundance **(20 marks)**

QUESTION FOUR

Citing relevant examples, describe adaptations of species to life in water **(20 marks)**

QUESTION FIVE

Discuss ways of conserving and restoring aquatic environmental resources **(20 marks)**