

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE

ZOOL 311: FRESHWATER BIOLOGY

STREAMS: BSC

TIME: 2 HOURS

DAY/DATE: TUESDAY 24/12/2024

11.30 A.M – 1.30 P.M.

INSTRUCTIONS

- Answer **ALL** questions in section **A** and any other **TWO** in section **b**
- Illustrate your answers with diagrams where appropriate

SECTION A (30 MARKS)

- Q1 Explain the following terms
- a) Functional feeding groups (FFG) (2 marks)
 - b) Streams drift of aquatic invertebrates (2 marks)
 - c) Ground water organisms (2 marks)
- Q2
- a) State anthropogenic and ecological uses of water (3 marks)
 - b) Differentiate between endorheic and exoreic regions (3 marks)
- Q3 Distinguish between the following terms
- a) Lotic and Lentic ecosystems (2 marks)
 - b) Turbulent and Laminar flows (2 marks)
 - c) Plankton and nekton (2 marks)
- Q4
- a) Describe the process of organic matter decomposition in streams (3 marks)
 - b) State of functions of wetlands (3 marks)

- Q5 a) Outline physical and chemical properties of water (3 marks)
- B Describe how water mixes in Holomictic and Meromictic lakes (3 marks)

SECTION B (40 MARKS)

- Q6) Describe and illustrate the hydrological Cycle (20 marks)
- Q7) Give an account of origin and distribution of lakes (20 marks)
- Q8) Discuss causes and remedies of freshwater pollution (20 marks)
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