

CHUKA



UNIVERSITY

SUPPLEMENTARY/ SPECIAL EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF
BACHELOR OF EDUCATION SCIENCE, BACHELOR OF SCIENCE**

BOTA 232: PHYCOLOGY

STREAMS: BED (SCI), BSC

TIME: 2 HOURS

DAY/DATE: TUESDAY 02/02/2021

11.30 AM – 1.30 PM

INSTRUCTIONS:

- **Answer all questions in section A and any two in section B**
- **Do not write anything on the question paper**
- **Use illustrations where appropriate to enhance your answer.**

SECTION A (30 MARKS)

1. Define the following terms. [3 marks]
 - a. Monoecious
 - b. Anisogamy
 - c. Algal bloom
2. Discuss conditions for sexual reproduction. [4 marks]
3. Classify algae based on thallus organization. [4 marks]
4. Describe types of food reserves in algae. [4 marks]
5. Discuss the role of algae in human health. [3 marks]
6. Describe the characteristics of euglenophycophyta [5 marks]
7. Discuss algae distribution in the ecosystem. [3 marks]
8. Account for pigmentation in algae and cyanobacteria. [4 marks]

Section B (40 Marks)

9. Discuss economic importance of algae to human welfare. [20 marks]
 10. Discuss vegetative and asexual reproduction in algae. [20 marks]
 11. Describe various morphological features exhibited by algae. [20 marks]
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