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]