

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

RESIT/SPECIAL EXAMINATION

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE

BOTA 232: PHYCOLOGY

STREAMS: BSC

TIME: 2 HOURS

DAY/DATE: TUESDAY 02/11/2021

11.30 A.M – 1.30 P.M.

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. [4 marks]
6. Describe the characteristics of euglenophycophyta [4 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]