

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF BACHELOR OF DEGREE OF
BACHELOR OF SCIENCE

BOTA 232: PHYCOLOGY

STREAMS: Bsc

TIME: 2 HOURS

DAY/DATE: THURSDAY 01/04/2021

11.30 A.M. – 1.30 P.M.

INSTRUCTIONS:

1. Answer **ALL** questions in Section **A** and any other **TWO** in section **B**
2. Do not write anything on the question paper.
3. Use illustration where appropriate to enhance your answer

SECTION A:

1. Define the following terms as applied in phycology (2 marks)
 - (a) Homothallic
 - (b) Diecious
2. Describe the distinguishing characteristics of Chlorophyta (4 marks)
3. Differentiate between isogamy, anisogamy and oogamy (3 marks)
4. Describe the different types of pleuronematic algae (3 marks)
5. Differentiate different types of tinsel or pleuronematic flagella (3 marks)
6. Compare and contrast between red and green algae (4 marks)
7. Discuss harmful effects of algae (4 marks)
8. Highlight the role of algae in sewage treatment (4 marks)
9. Describe the structure and functions of paranooids (2 marks)

SECTION B (40 MARKS)

10. Discuss the economic importance of algae and cyanobacteria (20 marks)

11. Discuss sexual reproduction in algae (20 marks)

12. Discuss characteristics of Red algae (Rhodophyta) (20 marks)

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