

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

RESIT/SPECIAL EXAMINATION

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF
SCIENCE IN BOTANY**

BOTA 271: PLANT PHYSIOLOGY I

STREAMS: BSC BOTA

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 03/02/2021

8.30 A.M – 10.30 A.M.

1. Using a well-labeled diagram, illustrate the structure of the phloem (5 marks)
2. Describe how excess water affects terrestrial plants (5 marks)
3. Describe the different types of solutions that occur in cells (6 marks)
4. Name four monosaccharides that are found in plants (4 marks)
5. Describe the types of amino acids (5 marks)
6. Describe the structure of cellulose (5 marks)

Section B

7. Describe the process of photosynthesis (20 marks)
 8. a. Discuss the types of lipids that are found in plants (10 marks)
b. Discuss the factors that affect enzyme activity in plants (10 marks)
 9. Describe the forces that are involved in the transport of water in plants (20 marks)
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