

CHUKA



UNIVERSITY

RESIT/SPECIAL EXAMINATION

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE

BOTA 241: TAXONOMY OF HIGHER PLANTS

STREAMS:

TIME: 2 HOURS

DAY/DATE: MONDAY 01/11/2021

11.30 A.M – 1.30 P.M

INSTRUCTIONS:

Answer all questions in section A and any other two in section B

SECTION A (30 MARKS)

1. Explain the use of author citation in a scientific name (5 marks)
2. Describe the formation of a genus when commemorating a person. (5 marks)
3. List the distinguishing characteristics of family Fabaceae. (5 marks)
4. Draw and label a phylogenetic tree. (5 marks)
5. List five disadvantages of common names. (5 marks)
6. Outline the major systems of plant classification. (5 marks)

SECTION B (40 marks)

7. Discuss the steps of herbarium techniques. (20 marks)
 8. Discuss the following:
 - a. Species concepts used in biosystematics. (6 marks)
 - b. Mechanisms of speciation (14 marks)
 9. a. Define a botanical key and differentiate the two main types. (10 marks)
 - b. Discuss the basic rules for constructing and using a dichotomous key. (10 marks)
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