| 1. a) Mention ways of identifying plants. | (4 Mark |
|---|----------------------|
| 2. a) Differentiate between scientific names and common nam | nes. (4 Mark |
| b) State the disadvantages of common names. | (4 Mark |
| 3. Mention and explain the classification systems for plants. | (4 Mark |
| 4. a) What are the functions of a herbarium? | (3 Mark |
| b) What rules should be followed in collecting of herbarium s | pecimens. (5 Mark |

6. Explain why virtual herbariums are preferred over physical herbarium. (5 Marks)

(4 Marks)

UNIVERSITY KIS] UNIVERSITY EXAMINATIONS

SECOND YEAR EXAMINATION FOR THE AWARD OF THE **DEGREE OF BACHELOR OF EDUCATION SCIENCE** SECOND SEMESTER 2022/2023 [SEPTEMBER-DECEMBER, 2022]

BOTA 241: TAXONOMY OF HIGHER PLANTS TIME: 2 HOURS

2. Answer ALL the questions in Section A and any TWO in Section B.

1. Do not write anything on this question paper.

5. When is it necessary to change scientific names.

STREAM: Y2S2

DAY: FRIDAY, 3:00 – 5:00 PM

INSTRUCTIONS

DATE: 23/12/2022

| 7. a) Why do family names end with –aceae. | (2 Marks) |
|---|-----------|
| b) Write short notes on Cucurbitaceae family. | (5 Marks) |

SECTION B: ANSWER ANY TWO QUESTIONS (30 MARKS)

8. Describe a set of characters that places plants in Solanaceae family. (15 Marks)

9. Discuss how you would go about identifying classifying and naming a peculiar plant species discovered at the shores of Lake Victoria.

(15 Marks)

10. Discuss how you would go about constructing and using of identification keys. (15 Marks)