

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF
DIPLOMA IN ANIMAL SCIENCE**

BOTA 0212: PLANT TAXONOMY

STREAMS: DIP (ANHE)

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 10/12/2014

8.30 AM – 10.30 AM

INSTRUCTIONS:

- **Answer All Questions in Section A and any other Two in Section B**
- **Illustrate with diagrams wherever appropriate**

Section A (30 marks)

1. Define the following terms:
 - (a) Indicator plant [1 mark]
 - (b) Monoecious plant [1 mark]
 - (c) Biennial plant [1 mark]
 - (d) Monocarpic plant [1 mark]
 - (e) Polygamous plant [1 mark]
2. Differentiate between dehiscent and indehiscent fruits giving examples. [4 marks]
3. (a) What are the different types of leaves? [2 marks]
(b) How are these leaves arranged? [3 marks]
4. (a) What are the main components of scientific name; give an example [5 marks]
(b) Name 5 (five) advantages of scientific names [5 marks]
5. Briefly describe the different types of classification. [6 marks]

Section B (40 marks)

6. With the aid of diagrams, elaborate the following:
- (a) The structure of a flower [8 marks]
 - (b) Placentation types [12 marks]
7. Name the different types of roots and describe their modifications. [20 marks]
8. Explain the techniques used in the preparation of plant specimens. [20 marks]
-