



THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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MAIN EXAMINATION

AUGUST – DECEMBER 2018 TRIMESTER

FACULTY OF SCIENCE

DEPARTMENT OF BIOLOGY

REGULAR PROGRAMME

BIO 302: PLANT SYSTEMATICS

Date: DECEMBER 2018

Duration: 2 Hours

INSTRUCTIONS: Answer Question ONE and any other TWO Questions

- Q1. a) Outline Taxonomic/Nomenclatural 'types' **5 marks**
- b) Distinguish between Cladistics and Phenetics **5 marks**
- c) Define common names of plants and list four advantages of using them **5 marks**
- d) State the importance of herbarium specimens **3marks**
- e) Outline the principles of Plant Nomenclature **4marks**
- f) Illustrate the inflorescence of Asteraceae family. **5marks**
- g) Define the terms: apomorphy and synapomorphies **2marks**
- h) State an apomorphy of Angiosperms **1mark**
- Q2. Discuss the herbarium and its function **20marks**
- Q3. Give an outline on major contributors of the History of Plant Taxonomy **20marks**
- Q4. Write an essay on the Sunflower family **20marks**
- Q5. Describe the Sources of Taxonomic evidence **20marks**