

FEDRAL UNIVERSITY OF TECHNOLOGY, MINNA
DEPARTMENT OF PLANT BIOLOGY
FIRST SEMESTER BTECH EXAMINATIONS, 2017/2018 SESSION

COURSE CODE: PLB 411
COURSE TITLE: SYSTEMATICS
CREDIT UNITS: 3 UNITS
TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER FOUR (4) QUESTIONS IN ALL, TWO QUESTIONS FROM EACH SECTION

SECTION A

1. a. Highlight the contributions of Andrea Caesalpino towards the development of Taxonomy
b. Describe the processes which may cause members of the same population to stop interbreeding.
2. a. What is a cultigen?
b. Mention the first ten (10) out flame of Linnaean classification of plants
c. Species can be defined as "Groups of actually and potentially interbreeding populations, which are reproductively isolated from other such groups". Highlight the lapses that render this definition not suitable for species.
3. a. Explain the guiding principles of nomenclature
b. Write notes on derivation of generic names
c. What is the meaning of the following: i. rara ii. alba iii. Naragurensis iv. Pendulus v. aquatica

SECTION B

4. a. Write notes on each of the following terms:
 - i. Cline
 - ii. Hybrid Swarmb. State the relationship between a holotype and a neotype
c. Differentiate between Agamospecies and genetic species
5. a. What is taxonomic literature? List five (5) examples of taxonomic literatures
b. Justify the essence of common names in plant naming
c. The common names have limited use for scientific purposes. Discuss.
d. Trace the history of the botanical nomenclature
6. a. Explain at least, seven rules which are the major provisions of the International Code of Nomenclature for Algae, Fungi and Plants (ICN)
b. Succinctly describe the principle of folk taxonomy