

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
DEPARTMENT OF PLANT BIOLOGY
SECOND SEMESTER BTECH. EXAMINATION, 2017/2018 SESSION

COURSE CODE: PLB 523
COURSE TITLE: PLANT TAXONOMY
COURSE UNIT: 3
TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER ALL QUESTIONS IN SECTION A AND ANY TWO QUESTIONS, AT LEAST ONE QUESTIONS FROM SECTION B AND C

SECTION A

1.
 - a. What is Systematics?
 - b. List 3 aims of Taxonomy
 - c. List 3 components of Taxonomy
 - d. What is a Taxonomy key?
 - e. Write down 3 major types of taxonomy key.
 - f. Give the full meaning of the acronym ICN
 - g. List process involved in preparing a voucher specimen in an herbarium
 - h. Give one example of Botanical gardens in the world
 - i. The conserved name of Family Asteraceae is -----
 - j. From which sources of information were the following plant names derived? *edulius, asper and repens* k. Latinize your surname as generic name and your name as specific epithet
 - l. If *Psilitroha cooperi* was transferred from A. Gray to EL.Greeve re-write the plant name as appropriate. m. The name *Sophia sophia* or *Ratus ratus* point at condition called -----
 - o. Any given name that did not follow the guide lines for naming is called -----
 - p. Adebola was the author and publisher of *Sida Acuta*. Re- write to show this information
2.
 - a. Give an account of the geographical distribution of green plants in the Biosphere.
 - b. Mention the scientific names of any twelve (12) trees distributed within the Savannah region of Nigeria
 - c. Highlight the aims of phytogeography.
 - d. List five (5) economic importance of the family *Arecaceae*.

SECTION B

3.
 - a. Describe the latitudinal classification of the world vegetation zones as proposed by Hansen.
 - b. Discuss the taxonomic position of the Grass family using the following features: number of genera and species, distribution, habit, leaf, inflorescence, flower, androecium, gynoecium, and fruit.
4.
 - a. Write and interpret the floral formula of *Caesalpinia pulcherima*
 - b. In a tabular form, differentiate between *Poaceae* and *Cyperaceae*
 - c. Mention ten (10) economic importance of named members of the family *Fabaceae*.

SECTION C

5.
 - a. Write notes on the contributions of the scientists in the development of taxonomy during the:
 - i. transition period
 - ii. modern period
 - b.
 - i. What is type specimen?
 - ii. List 5 major types
6.
 - a. Enumerate two agreements reached at ICN congress held in:
 - i. Paris, 1867
 - ii. America 1909
 - b. Write notes on the codes formed at ICN congress 2017 in Shenzhen, China