

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
DEPARTMENT OF PLANT BIOLOGY
FIRST SEMESTER BTECH EXAMINATION, 2019/2020 SESSION

COURSE CODE PLB 212
COURSE TITLE: VARIETY PLANTS
COURSE UNIT: 3
TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER FOUR (4) QUESTIONS IN ALL. ALL QUESTIONS IN SECTION A AND ONE QUESTION EACH IN SECTION B AND C

SECTION A (COMPULSORY)

1.
 - i. With the aid of diagram, describe the origin of heterospory.
 - ii. Give two examples of plant species in the families Euphorbiaceae and Malvaceae.
2.
 - a. Give a detail classification of Gymnosperm
 - b. Highlight the characteristic of each division in "2a"

SECTION B

3.
 - a. Describe the family Cyperaceae under the following headings: habitat, stem and leaves.
 - b. Explain the various conditions that favour allogamy.
 - c. Depict the formulae below in a floral diagram.

(i)



(ii)

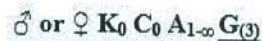


4.
 - a. Give an account of the economic importance of the family Fabaceae.
 - b. Write an essay on the structure of flowers.
 - c. Interpret the following floral formulae

(i)



(ii)



SECTION C

5.
 - a. Succinctly write on any five modification in leaf
 - b. Differentiate between the monocots and dicots
 - c. Highlight five functions of leaf to plant
6.
 - a. Write notes on reproduction in angiosperms
 - b. Enumerate the characteristics of spermatophyte
 - c. State five economic importance of the family cycadaceae to man