

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

COURSE CODE PLB 311
COURSE TITLE: SEED PLANTS
COURSE UNIT: 3
TIME ALLOWED: 2 HOURS

INSTRUCTION: *ANSWER ANY FOUR (4) QUESTIONS IN ALL*

2.
 - a. Write notes on distinct features of Angiosperm
 - b. Write notes on the following theories to support the origin of angiosperms:
 - i. Bennettitales – Renales theory
 - ii. Coniferae – Amentiferae theory
 - iii. Caytoniales – Angiospermae theory
2.
 - a. With the aid of clear diagrams and examples, explain the types of stomatal structure.
 - b. Highlight five characteristics of meristematic tissues
3.
 - a. Explain in details the ecological adaptation of hydrophytes to their environment
 - b. List and explain the elements of xylem
4.
 - a. Stating the criteria for classification, explain the types of meristem
 - b. List any 5 anatomical characters of taxonomic significance
5.
 - a. With the aid of clear diagrams, explain the types of simple tissues.
 - b. With reference to the structure, state the function of parenchyma
6.
 - a. Using appropriate diagrams, write notes on the types of vascular bundles
 - b. With respect to specific example, write concise notes on the family Euphorbiaceae under the following headings:
 - i. Leave
 - ii. Flower
 - iii. Method of Pollination
 - iv. Inflorescence
 - v. Nature of fruit/seed