

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

COURSE CODE: PLB 221
COURSE TITLE: PLANT FORMS AND FUNCTION
COURSE UNIT: 3
TIME ALLOWED: 2 HOURS

INSTRUCTION: *ANSWER ALL QUESTIONS IN SECTION A AND ONE (1) QUESTION EACH FROM SECTIONS B AND C*

SECTION A

1. Outline the classification of meristematic tissue based on their function and origin.
2.
 - a. Enumerate the external factors that affect the rate of transpiration
 - b. Write out chemical equation for photosynthesis
 - c. List any three products of light phase of photosynthesis
 - d. Write the full meaning of the following acronyms: ADP, ATP, NADP
 - e. Differentiate between translocation and transportations of materials in plant

SECTION B

3. In most vascular plants, the leaf is the main photosynthetic organs, although green stem also perform photosynthesis. Discuss!
4. Describe the arrangement of tissues in stem of angiosperm.

SECTION C

5.
 - a. The seed is essentially a three generation structure. Discuss!
 - b. Write a concise essay on the activities going on in a seed during germination.
6.
 - a. With the aid of supporting diagram, describe how secondary growth occurs in root and shoots.
 - b. Outline the factors affecting seed germination.