



ELIZADE UNIVERSITY ILARA-MOKIN
FACULTY OF BASIC AND APPLIED SCIENCES
DEPARTMENT OF CHEMICAL AND PHYSICAL SCIENCES
FIRST SEMESTER EXAMINATION 2020/2021 SESSION

BCH 305- Plant Biochemistry

Time: 2 hrs

Instruction: *Answer any four (4) Questions*

- 1a. What are Phytohormones? (1 mk)
- 1b. List the types of Phytohormones and state 5 functions of each. (14 mks)
- 2a. With the aid of a balanced chemical equation define photosynthesis. (3 mks)
- 2b. Enumerate the differences between Calvin cycle (C₃) plant and Slack Cycle (C₄) plants. (6 mks)
- 2c. Differentiate between Photosystem I (PSI) and Photosystem II (PSII). (6 mks)
- 3a. Describe the processes involved in plant cell wall and lignin formation. (15 mks)
- 4a. Describe the following:
- (i) Plant Growth (ii) Plant development (iii) plant sigmoid curve
(iv) plant movement (v) Auxanometer (5 mk)
- 4b. Herbicide, a plant artificial growth regulator; briefly discuss. (10 mks)
- 5a. Describe the factors that influence plant growth and development. (12 mks)
- 5b. State the different stages of cellular growth. (3 mks)
- 6a. With the aid of a well labelled diagram, describe the plant cell and mention the biological functions of any ten (10) of its organelles. (15 mks)