



ELIZADE UNIVERSITY, ILARA-MOKIN
FACULTY OF BASIC AND APPLIED SCIENCES,
DEPARTMENT OF PHYSICAL AND CHEMICAL SCIENCES
(BIOCHEMISTRY OPTION)
FIRST SEMESTER EXAMINATION

COURSE: BCH 305 (PLANT BIOCHEMISTRY)

TIME ALLOWED: 2 HOURS

HOD SIGNATURE:

A handwritten signature in black ink, enclosed in a rectangular box. The signature appears to be 'G. A. Oluwalana'.

Instruction: Answer any four (4) questions

- 1a. Discuss the scope and importance of Plant Biochemistry
- 1b. Explain the functions of five subcellular compartments in a mesophyll cell.
- 2a. Highlight the major events of the light-dependent and light-independent stages of photosynthesis.
- 2b. What is the role of chlorophylls in photosynthesis?
- 3a. Using a diagram of the absorption spectra of photopigments, explain the importance of accessory pigments in photosynthesis.
- 3b. Explain the three stages of CO₂ assimilation in photosynthetic organisms.
4. Write notes on plant secondary metabolites.
5. Itemize the major classes of plant growth regulators and explain their specific activities in plants.
6. Write notes on synthetic growth regulators and herbicides.