

KOM XX

OLABISI ONABANJO UNIVERSITY  
DEPARTMENT OF BIOCHEMISTRY  
REMO CAMPUS, IKENNE  
2011/2012 EXAMINATION

9

DATE: 19/7/2011

Course CODE: BCH 411 TITLE: PLANT BIOCHEMISTRY

TIME: 2Hrs

ANSWER QUESTION 1 AND ANY OTHER THREE QUESTIONS

- 1a Describe the Cyclic photosynthetic electron transport chain.
- 1b List the SIMILARITIES and the DIFFERENCES between  $CF_1$ - $CF_0$  complex and Cytochrome  $bf$  complex
- 2a. What are phytochemicals? List types of phyto-chemicals.
- 2b Diagrammatically, show the biosynthetic relationships of major groups of phytochemicals.
- 3a Diagrammatically, show the biosynthesis of peyote alkaloids.
- 3b Describe the three important reactions that occur in alkaloid biosynthesis
- 4a What are phytohormones? List classes of phytohormones
- 4b Discuss the physiological roles of auxin
- 5a Describe the process of biological nitrogen fixation.
- 5b What are the functions of nitrogen in living cells?