



EDO UNIVERSITY, IYAMHO, EDO STATE

FACULTY OF SCIENCE

DEPARTMENT OF BIOLOGICAL SCIENCES

First Semester Examination, 2016/2017 Session

Course Title: INTRODUCTORY PLANT BIOLOGY AND BIOTECHNOLOGY

Course Code: PBB 111

Time allowed: 3 Hours

Date: 10/05/2017

Instruction: Answer any four (4) questions. All questions carry equal marks.

- 1a. Write short notes on the following terms briefly:
- Biotechnology
 - Algology
 - Lichenology
 - Bryology
 - Levels of organization of life (15 marks)
- 1b. Define these terms
- Plant anatomy
 - Taxonomy
 - Plant pathology
 - Phytomedicine
 - Plant morphology (10 marks)
- 2a. Draw and label the plant cell appropriately. (10 marks)
- 2b. State the functions of the different components of the plant cell. (10 marks)
- 2c. State the salient points in the cell theory. (5 marks)
- 3a. What is a 'plant habit'? (2 marks)
- 3b. Write short notes on the various plant habits giving specific examples (correct botanical names). (14 marks)
- 3c. Give the different modes of nutrition of heterotrophic organisms. (9 marks)
- 4a. What were the drawbacks in Linnaeus two kingdom classification? (9 marks)
- 4b. What was Linnaeus' major contribution to taxonomy? (3 marks)
- 4c. Classify any plant example based on the taxonomic hierarchy down to species level. (7 marks)
- 4d. Who came up with the system of classification used till date? And how did he classify living organisms? (6 marks)





- 5a. Discuss Environmental biotechnology giving the definition, application, advantages and disadvantages. (10 marks)
- 5b. List 5 merits and 5 demerits of biotechnology. (10 marks)
- 5c. List five economic importance of the Monerans. (5 marks)

