



**ELIZADE UNIVERSITY,
ILARA-MOKIN, NIGERIA**

FACULTY: BASIC & APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

FIRST SEMESTER EXAMINATION

2017/2018 ACADEMIC SESSION

COURSE CODE: BIO 209

COURSE TITLE: SEEDLESS PLANTS

DURATION: 2 HOURS

HOD's SIGNATURE

NAME:.....

MAT. No:.....

INSTRUCTIONS

SECTION A: ANSWER QUESTION ONE AND ANY OTHER ONE

SECTION B: ANSWER ANY TWO QUESTIONS

SECTION A: ANSWER QUESTION ONE AND ANY OTHER ONE

- 1a. i. What do you understand by alternation of generation?
ii. Name the dominant phase of the lifecycle in mosses and ferns,
- 1b. i. What are the main characteristics of bryophytes and list the main groups of Bryophytes?
ii. Why are bryophytes small and how do they carry out the functions of exchange of materials (water and nutrients)?
- 1c. i. With the aid of a well labelled diagram, describe the main parts of ferns?
ii. State the economic importance of ferns.
- 2a. Explain the following terms (i) Plant classification (ii) Binomial system of nomenclature (iii). Phylogenetic trees
- 2b. i. What is Herbarium? List their usefulness of herbarium and enumerate the types Herbarium you have studied
ii. What is the Identification keys and **describe very briefly** the types you have studied.
- 3a. i. What are fossils and fossils records?
ii. What does fossils records reveal?
- 3b. i. What is Paleontology?
ii. List different forms of fossils you have studied

SECTION B: ANSWER ANY TWO QUESTIONS

- 4a. i. Briefly describe the events that occur during **Plasmogamy** and **Karyogamy** in fungi life cycle.
ii. Differentiate between **septate** and **coenocytic** fungi.
- 4b. i. State the three important classes of fungi and give three general account of their importance.
ii. Mention one function for each of these bacteria cell components; (a) **Plasmids** (b) **Pili**
- 5a. Give two reasons why virus is considered as;
i. a particle
ii. a living entity.
- 5b. i. Differentiate between **viroids** and **prions**
ii. State two similarities and three differences between **algae** and **plants**
- 6a. i. State the functions of algal and fungal components in lichen.
ii. Mention three (3) economic importance of bacteria
- 6b. i. Distinguish between the cell walls of gram positive and gram-negative bacteria
ii. Mention two characteristics that differentiate algae from fungi