



National Open University Of Nigeria

Plot 91, Cadastral Zone, NnamdiAzikiwe Expressway, Jabi - Abuja

Faculty of Science

JANUARY/FEBRUARY 2018 EXAMINATIONS

COURSE CODE: BIO 404 CREDIT UNITS: 2

COURSE TITLE: SYSTEMATIC BIOLOGY

TIME ALLOWED: 2 Hours

INTRUCTION: Answer question ONE (1) and any other THREE (3) questions

- 1a. Explain phylogenetics relationship in systematic Biology (2marks)
- b. Define classical taxonomy (2marks)
- c. What do you understand by Citation in systematic Biology? (6marks)
- d. List the different polarities found in pollen that are useful for taxonomy. (6marks)
- e. Define disruptive selection (2marks)
- f. State the neutrality theory. (4marks)
- g. What is geographical isolation? (3marks)

- 2a. Discuss the phases of development in plant taxonomy. (7marks)
- b. Explain specific epithet (8marks)

3. Discuss the principles that form the basis of system of nomenclature. (15)

- 4a. What is Paleobotany? (5marks)
- b. Discuss the role of Paleobotany in taxonomy. (10marks)

- 5a. What is a herbarium? (3marks)
- b. Explain the functions of the herbarium. (12marks)