



**National Open University of Nigeria**  
**Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja**  
**Faculty of Science**  
**Department of Pure and Applied Sciences**  
**2021\_2 EXAMINATION**

**COURSE CODE: BIO404**

**COURSE TITLE: SYSTEMATIC BIOLOGY**

**CREDIT: 3 Units**

**TIME ALLOWED: 2 1/2 Hours**

**INSTRUCTION: Answer Question ONE (1) and any other FOUR (4) Questions**

- 1a. State the three major rules adopted by Paris code” or “Candolle code” in Systematic Biology -3mks
- b. Differentiate between Parallelism and Convergence -3mks
- c. Explain in details why botanists use Latinized scientific names instead of common names -5mks
- d. Explain in details the vegetative characters of plants -5mks
- e. Describe the relationship between humans and plants during the prehistoric times -6mks
  
- 2a. Discuss population taxonomy -6mks
- b. Describe the four main types of relationship between plants -6mks
  
- 3a. Discuss the contributions of Herbalists from 15th through 17th century to plant classification - 5mks
- b. Describe the processes of specimen’ collection for herbarium 7mks
  
4. Apomixis is very important in systematics and plant breeding. Discuss 12mks
  
- 5a. Explain the test of characters in experimental taxonomy -3mks
- b. Describe how to make Chromosomes counts under the Microscope -9mks
  
- 6a. Outline the concept of legitimacy in nomenclature 5mks
- b. Discuss the limitation of the Principle of Priority 7mks