



**National Open University of Nigeria**  
**Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja**  
**Faculty of Science**  
**Department of Pure and Applied Sciences**  
**October/November, 2019 Examination**  
**Course code: BIO 311    Course title: Mycology    Units: 2**  
**Time allowed: 2 Hours**

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

- 1a. Briefly explain how fungus is a source of protein (6marks)
- 1b. State the four forms of sexual spores involved in the fusion of two nuclei in fungi (4marks)
- 1c. Write short note on Tinea Nigra (5marks)
- 1d. Name three types of mycoses caused by fungi (3marks)
- 1e. Briefly describe Gamete-gametangial copulation (4marks)
- 1f. List three different genera of dermatophytic fungi that cause ringworm (3marks)
  
- 2a. Discuss fully the disease called Histoplasmosis? (12marks)
- 2b. What are chlamydospores? (3marks)
  
- 3a. Asexual reproduction in fungi does not involve the union of nuclei, cells or sex organs. List the various ways it may be accomplished (5marks)
- 3b. Describe the structural features of the class Oomycetes (6marks)
- 3c. list the major fungal classes of interest (4marks)
  
4. Write short note on the following types of Aspergillosis
  - (a) Allergic Aspergillosis (7marks)
  - (b) Invasive Aspergillosis (8marks)
  
- 5a. What are trichomyces? (2Marks)
- 5b. With specific examples, critically examine the Nigerian classification of fungi (13marks)