



NATIONAL OPEN UNIVERSITY OF NIGERIA
UNIVERSITY VILLAGE, PLOT 91 CADASTRAL ZONE, NNAMDI AZIKIWE
EXPRESS WAY, JABI - ABUJA.
FACULTY OF SCIENCE
Department of Biological Sciences
2025_1 EXAMINATION

BIO 311: Mycology

TIME: 2Hours

CREDIT UNITS: 2

INSTRUCTION: Answer THREE questions in all. Question 1 is compulsory

- 1a. In Nigeria, there is a systematic nomenclature used in the classification of fungi 'List the characteristics used in the classification of fungi in Nigeria' (8marks)
- 1b. Ascomycetes is a class of higher fungi. Discuss what you know about the class (8marks)
- 1c. Sexual reproduction in chytrids is more complex. Explain the Planogametic copulation in chytrids (10 marks)
- 1d. With specific example, discuss the characteristics of yeast (4 marks)

- 2a. Starch is one of the major ingredients in bread production explain the role of starch in the production of bread (10 marks)
- 2b. Some fungi produce antibiotics, in a tabular form, list five such fungi and the antibiotics they produce (10 marks)

- 3a. Name and discuss the fungal disease that is chronic, pyogenic and granulomatous (15 marks)
- 3b. Write briefly on Allergic aspergillosis (5marks)

- 4a. Single cell protein from fungi can be used as supplement in animal feeds, discuss the importance of fungi as feed supplement. (5marks)
- 4b. Discuss the process of bread production using the species *Saccharomyces cerevisiae* (15 marks)

- 5a. The sub-division Eumycotina consists of true fungi which are mainly filamentous. List at least five (5) classes that are recognized in the subdivision of Eumycota (5marks)
- 5b. List the species of *Aspergillus* that cause Aspergillosis (5 marks)
- 5c. Explain planogametic copulation in fungi (10 marks)