



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**Plot 91, Cadastral Zone, NnamdiAzikiwe Expressway, Jabi - Abuja**  
**Faculty of Science**  
**2021\_2 EXAMINATION**

**Course code: BIO311**

**Course title: MYCOLOGY**

**Time Allowed: 2hrs**

**INSTRUCTIONS: Answer question one and any other three questions**

- 1a. Name three examples of the members of the class Zygomycetes(3marks)
- 1b. In a tabula form, differentiate between Ascospores and Basidiospores (6marks)
- 1c. What do you understand by asexual and sexual fruiting bodies in fungi? (8marks)
- 1d. Conidiospore is one of the different types of asexual spores in fungi. With an example of a fungus explain what you know about this spore. (8marks)
- 2a. Somatic reproduction in fungi does not involve the union of nuclei, cells or sex (4 marks)
- 2b. List and explain the various methods of sexual reproduction by which compatible nuclei are brought together in plasmogamy. (11marks)
3. Discuss the disease Zygomycosis? (15marks)
- 4a. With example, what are the characteristics of yeast? (4marks)
- 4b. Write notes on the order Saprolegniales (11marks)
- 5a. Write short notes on Basidiospores (3marks)
- 5b. Some fungi are able to establish infections in all exposed individuals while others are opportunistic which cause diseases only immunosuppressed individuals or hosts. With examples name three types of such diseases (12marks).