



**FEDERAL UNIVERSITY OF TECHNOLOGY MINNA**  
**SCHOOL OF LIFE SCIENCES**  
**DEPARTMENT OF MICROBIOLOGY**  
**SECOND SEMESTER 2019/2020 ACADEMIC SESSION**  
**COURSE: MCB 322 (MYCOLOGY) (EXAM)**

**Instruction:** Answer Five (5) Questions

**Time:** 2 ½ Hours

1. Write a concise note on the role of fungi in medicine
2. For the diseases listed, describe the symptoms, etiological agent(s), diagnostic techniques, pathogen identification, and treatment:
  - (a) Histoplasmosis
  - (b) Coccidioidomycosis
  - (c) Aspergillosis
3. Describe how hairs plucked from a patient's head can be used to help identify the etiologic agent of Tinea capitis. What is the choice of antifungal for the treatment?
4. Thermal dimorphism is a phenomenon that occurs in many true pathogenic fungi. Define what it is and give three examples of fungi that exhibit this property. What function does this adaptation probably serve in nature and/or in the host?
5. List the diseases caused by Candida under the following:
  - i. Cutaneous candidiasis
  - ii. Mucocutaneous candidiasis
  - iii. Systemic candidiasis
6. Briefly explain Asexual and Sexual reproduction in fungi.
7. Explain the differences between fungi and other microorganisms.