



**FEDERAL UNIVERSITY OF TECHNOLOGY,
MINNA**

**SCHOOL OF LIFE SCIENCES
DEPARTMENT OF MICROBIOLOGY**

SECOND SEMESTER EXAMINATION 2015/2016 SESSION

COURSE CODE: MCB 221

**COURSE TITLE: INTRODUCTION TO MICROBIOLOGY II (3
UNITS)**

CLASS: 200 LEVEL

TIME: 2 HOURS

Instruction: Answer any THREE questions

1. Discuss culture media giving two examples each of the different types of media
2. (a) Draw and label the bacterial growth curve. Explain the various stages of the growth curve
(b) List the common methods for pure culture isolation
3. (a) Define the following terms:
(i) Prokaryote (ii) Eukaryote (iii) Ubiquity of microorganisms
(iv) Protozoa (v) Viruses
(b) Construct a chart that reviews the major similarities and differences between Prokaryotic and Eukaryotic cells
4. (a) Name six fungi and the diseases they cause.
(b) In what ways are viruses different from living cells?

(c) What are the differences in preferred soil habitats between bacteria, fungi, and protozoa?

5. (a) Briefly highlight the importance of the following in bacteria pathogenesis: Capsule, Fimbriae, Toxins, Hemolysin, Coagulase, Hyaluronidase, Lecithinase and Leucocidin.

(b) Give an example for each of the following types of diseases and the causative agents.

(i) Airborne disease (ii) Foodborne disease (iii) Waterborne disease

(iv) Contact disease (v) Zoonotic disease