



**FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF LIFE SCIENCES
DEPARTMENT OF MICROBIOLOGY**

FIRST SEMESTER EXAMINATION 2015/2016 SESSION

COURSE CODE: MCB 211

COURSE TITLE: INTRODUCTION TO MICROBIOLOGY I (3 UNITS)

CLASS: 200 LEVEL

TIME: 1hr 30 min

Instruction: Answer any three (3) questions

- 1(a). (i). What is the basic unit of Taxonomy and what is the title of the book that gives a detail account of Bacterial Classification?
(ii). In the name *Bacillus subtilis* state the genus and the species.
- 1(b). Give the taxonomic rank of a named bacterium
- 1(c). Define the following giving one example each:
 - (i) Bacteria
 - (ii) Viruses
 - (iii) Fungi
 - (iv) Parasites
 - (v) Biotechnology
2. Discuss the beneficial and the harmful effects of microorganisms on human life.
- 3(a). Name the scientists who made significant contributions to microbiology. What were their contributions?
- 3(b). What are Koch's postulates?
- 3(c). Compare Eucaryotes and Prokaryotes
- 4(a). List some vital informations a microbiologist will be interested in studying a particular microorganism.
- 4(b). How will you demonstrate in the laboratory that microorganisms are ubiquitous?
- 5(a). Describe one experiment each in support of the theory of spontaneous and non-spontaneous generation of microorganisms.
- 5(b). Name five instruments in the Microbiology Laboratory and their uses.