



**FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA**  
**MICROBIOLOGY DEPARTMENT**  
**FIRST SEMESTER EXAMINATION, 2017/2018**  
**COURSE: INTRODUCTION TO MICROBIOLOGY I (MCB 211),**  
**2UNITS**

**INSTRUCTIONS:** Answer TWO questions in Section A and ONE Question in Section B.  
All Questions carry equal marks

**TIME: 1½ Hours**

**SECTION A**

- 1(a)
  - (i) Define microbiology, mention variety of microorganisms
  - (ii) Majority of microorganisms have nothing to do with infection, diseases, 99% of microorganisms contribute to the quality of human life. Explain/comment.
- 1(b). Explain the dogma “theory of spontaneous generation”.
- 2(a). Explain the contributions of the following scientists to the field of Microbiology
  - (i) Anthony von Leuwenhoek
  - (iii) Robert Hooke
  - (iv) Alexander Fleming
  - (v) Robert Koch
- 2(b). Give an account of the characteristics of bacteria
- 3(a). The system of nomenclature for all living things is applied to microbial forms.  
Discuss
- 3(b). Give reasons why viruses are not considered microorganisms in strict sense.

**SECTION B**

4. Briefly discuss bacteria and fungi under the following headings

- (i) structure
- (ii) reproduction
- (iv) classification

5(a). Write short note on the following

- (i) extremophiles
- (ii) psychrophiles
- (iii) halophiles
- (iv) acidophiles
- (v) piezophile

5(b). Give five importances of microbes to human.