



FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
DEPARTMENT OF MICROBIOLOGY
FIRST SEMESTER EXAMINATION, 2018/2019 SESSION
FOOD MICROBIOLOGY (MCB 412), 3 UNITS

INSTRUCTIONS: Answer any **FIVE Questions**.

Time Allowed: **2Hours**

1. Discuss various microbial spoilage associated with eggs.
2. Give a description of suitable techniques for detecting microbial presence in the following food products: fruits and vegetables, evaporated milk and raw meat.
- 3a. Explain how the following factors affect microbial activities in food;
 - Water activity
 - Antimicrobial constituents
 - Biological Structure
- 3b. What is DNA probe? Why is it significant in microbial food analysis?
- 4a. Discuss vividly the biological method of food preservation.
- 4b. In a tabular form, list five (5) bacterial agents of food borne diseases indicating the important reservoirs, transmission and examples of incriminated food.
- 5a. Enumerate the differences between Brucellosis and Salmonellosis.
- 5b. List and explain with examples the different types of food borne diseases.
6. Describe the procedures involved in the production of any 2 of the following dairy products;
 - Yogurt
 - Ice cream
 - Cheese
- 7a. Differentiate between Fumonisin and Aflatoxin.
- 7b. Describe how the following methods are used in microbial food analysis:
 - Measurement of electrical impedance
 - Membrane filter technique.