

NATIONAL OPEN UNIVERSITY OF NIGERIA Faculty of Agricultural Sciences, Kaduna

DEPARTMENT OF AGRICULTURAL ECONOMICS AND EXTENSION

2020 2 EXAMINATION ...

COURSE CODE: HCM431

COURSE TITLE: ADVANCE FOOD AND BEVERAGE PRODUCTION

COURSE UNIT: 2

INSTRUCTION: ANSWER QUESTION ONE AND ANY OTHER THREE

TIME ALLOWED: 2HRS

- 1. You have been working as a Food and beverage manager in a large food service establishment for some time when you notice deterioration and a dramatic increase in food spoilage leading to decrease in kitchen profit.
- A. What do you think is responsible for these? (4mks)
- B. Provide a brief on what could be involved in the following:
 - (i) Knowledge of food microbiology. (4mks)
 - (ii) Microorganism in food. (4mks)
 - (iii) Grouping of food for test. (5mks)
 - (iv) Perishable foods. (3mks)
 - (v) Fermentation and foods. (5 mks)

Total (25mks)

- 2. A. Define Microbiology. (4mks)
 - B. With the aid of diagram, describe the morphological characteristics of Amoeba, Algae and Bacteria. (11mks) (Total = 15 Mks)
- 3 A. As a Hotel and Catering professional, give a detailed explanation of food contamination and state its effect on food and beverage production. (7mks)
 - B. Identify the causes of contamination and state some of the ways of avoiding it for maximum efficiency.

(Total = 15 Mks)

- 4 A. Describe the spoilage of the following food commodities and their indications. (8mks)
- B. Explain the causes of the spoilage and suggest ways to prevent it from occurring in your hotel. (4mks)
- C. Discuss at least five factors influencing microbial growth. (3mks)

(Total = 15 Mks)

- 5. A What do you understand by food preservation? (3mks)
 - B. Explain the processes designed to preserve food. (8mks)
 - C. Identify the reasons for preserving food. (4mks)

(Total = 15 Mks)

- 6. A. Food additives play key role in maintaining the food qualities and characteristics that consumers demand. Discuss. (9mks)
 - B. Mention the primary reasons for adding colours to foods (3mks)
 - **C.** Which of the food additives cause adverse reactions.? (3mks)

(Total = 15 Mks)