



## UNIVERSITY

#### UNIVERSITY EXAMINATIONS

# EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN FOOD SCIENCE AND TECHNOLOGY

FOST 344: SUGAR AND CONFECTIONERY TECHNOLOGY

STREAMS: BSC FOST TIME: 2 HOURS

DAY/DATE: MONDAY 05/07/2021 2.30 P.M. – 4.30 P.M.

## **INSTRUCTIONS:**

• Answer ALL questions in section A and any other TWO questions in section B.

## **SECTION A (30 MARKS)**

- 1. Explain the differences between soft ball and hard to crack temperature in sweet confectioneries. (4 marks)
- 2. (a) Briefly describe the common defects in chocolate bar and explain solutions to address the defects. (5 marks)
  - (b) Explain the importance of sugar in the food industry. (4 marks)
- 3. Describe the production process of glucose syrup from raw Irish potatoes. (8 marks)
- 4. (a) Briefly describe the importance of honey byproducts. (4 marks)
- (b) Outline the differences between sugar beet and sugar cane as they are commonly used in sugar production. (5 marks)

#### **SECTION B (40 MARKS)**

- 5. (a) Discuss the applications properties of confectionery syrup in food industries. (10 marks)
  - (b) Describe the production of white sugar from raw sugar beet. (10 marks)

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