

The Open University of Sri Lanka  
Faculty of Engineering Technology  
Department of Agricultural & Plantation Engineering



Study Programme	: Bachelor of Industrial Studies Honours (Agriculture)
Name of the Examination	: Final Examination
Course Code and Title	: AGX4531/AEX4231 Food and Nutrition
Academic Year	: 2019/2020
Date	: 22 <sup>nd</sup> January 2021
Time	: 9.30-12.30hrs
Duration	: 3 hours

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**SECTION 2: Answer any four (04) questions.**

- Classify carbohydrates based on number of monomer units giving two examples for each classification? (12.5 Marks)
  - Explain the fate of ingested milk rice in a human body. (12.5 Marks)
- Illustrate and label the human alimentary canal. (15 Marks)
  - Briefly explain why glucose should be given to and athletes before and after a game. (10 Marks)
- Draw the Haworth Ring formula of D-glucose. (10 marks)
  - Briefly explain the role of villi of small intestine in nutrient absorption (15 Marks)
- Discuss the major components that are needed to be considered in developing a food policy for a country? (25 Marks)

5. Write short notes on the following topics (12.5 Marks for each)
- a. Different factors effect on basic metabolic rate of human. (BMR)
  - b. Why milk products do not show traffic light colours.
6. "Blood glucose level of human is controlled by insulin" Critically evaluate the statement. (25 Marks)