

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
<b>Course Code and Title</b>	<b>: AGI4559 Food and Nutrition</b>
Academic Year	: 2021/2022
Date	: 11 <sup>th</sup> February 2023
Time	: 9.30-12.30hrs
<b>Duration</b>	<b>: 3 hours</b>

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

- Sketch a diagram of human digestive system. (10 Marks)
  - Explain the process of digestion after consuming a piece of Milk rice with Mung bean. (15 Marks)
- Illustrate and label the Villi of a small intestine. (10 Marks)
  - What is the function of crypt of a Villi? (05 Mark)
  - Briefly explain the role of stomach in food digestion. (10 marks)
- Briefly state why some people develop allergic symptoms and signs after ingestion of Prawn? (12.5 Marks)
  - What are the differences between type I and type II diabetes? (12.5 Marks)
- Write short notes on the following topics (12.5 Marks each)
  - Factors affecting Basic Metabolic Rate (BMR) of an individual
  - Role of vitamin D as a nutrient
- Name different groups that need to be targeted in setting up any food policy. (05 Marks)
  - Discuss how government policies help to assure food security and wealth of a nation? (20Marks)
- “Food additives and functional foods are added to processed food to enhance the consumer acceptance” Critically evaluate this statement (25 Marks)

