

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	: AGI4559/ AGX4531 Food and Nutrition
Academic Year	: 2021/2022
Date	: 11 th February 2024
Time	: 9.30-12.30hrs
Duration	: 3 hours

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SECTION 2: Answer any four (04) questions.

1. a) Classify carbohydrates based on the number of monomer units giving two examples for each classification. (15 Marks)
 b) Draw and label the alimentary canal of a human (10 Marks)
2. a) Briefly discuss the causes of diabetes development. (10 Marks)
 b) Compare the absorption process of a healthy individual and a diabetes patient following the consumption of a piece of bread. (15 Marks)
3. a) Draw the structure of cellulose showing β (1-4) linkage. (10 Marks)
 b) Briefly discuss why cellulose cannot be digested in the human intestine. (15 Marks)
4. Discuss the major areas to be considered by the government in formulating food policies to overcome malnutrition. your answer should consist of three main objectives of a food policy direct subsidies, legislative measures and technological measures. (25 Marks)
5. Write short notes on the following topics (12.5 Marks each)
 - a) Food additives can improve the quality of food
 - b) Role of Ca and P in human nutrition
6. Rural poor is healthier than urban poor in terms of nutrition" Critically evaluate this statement. Empathizing the food quality and nutrition. (25 Marks)