



The Open University of Sri Lanka
Faculty of Engineering Technology
Bachelor of Industrial Studies Honours Degree programme
Final Examination- 2015/2016
AEX4231 Food and Nutrition

Date : 17.11.2016
Time : 0930-1230
Duration : Three (03) hours

SECTION 2: Answer any four (04) questions.

1. (a) "Starch is composed of two forms of homopolysaccharides of amylose and amylopectin". Draw the chemical structure of amylose and amylopectin and compare the differences.
(b) Discuss the role of α -amylase and β -amylase enzymes in starch digestion.
2. (a) Draw the structure of cellulose showing β (1-4) linkage.
(b) Briefly state why grasses cannot be digested in the human intestine.
3. (a) Draw and label the alimentary canal of human.
(b) Explain the fate of ingested fried pork meat in a human body.
4. Discuss how food policies could directly affect the development of a country.
5. Write short notes on two (02) of the following topics.
 - a. Digestion in the stomach.
 - b. Introduction of traffic light colours to show the sugar content of beverages but not milk and milk derived beverages
 - c. Controlling type I and type II diabetics.
6. "Urban poor and malnutrition is severe than village poor and malnutrition" Critically evaluate this statement.