The Open University of Sri Lanka
Faculty of Engineering Technology
Final Examination- 2007
AEX4231 Food and Nutrition

Date   : 12-05-2008
Time   : 0930-1230 hrs

SECTION II

(1) (a) Write a short account on "Classification of carbohydrates according to their structure". Your answer should include three (03) examples for each category.

(b) Discuss the importance of chemical properties of simple sugars.

(2) (a) Explain the role of proteins in food industry and as food constituent.

(b) Write a brief account on "Proteins in human diet".

(3) (a) Briefly discuss the absorption of lipids inside the body.

(b) Draw a detailed diagram to show the secretion of enzymes by which carbohydrate, protein and lipids are digested in to simple compounds in elementary canal. In each stage mention the name of the enzyme which involve in reaction.

(4) (a) Explain how the following factors affect the demand of a commodity with the help of detailed graphs.
- Market price of that commodity.
- Price of other commodities.
- Income of the household.

(b) Referring to a detailed graph briefly explain the relationship between demand of a commodity and income of a consumer.

(5) (a) Describe the "fate of absorbed glucose in human body".

(b) Briefly discuss the importance of gums and related substances in food industry. Name three (03) commonly used gums as food additives.

(6) Write short notes on any three (03) topics of the following;

(a) Saponification number.
(b) Roles of minerals in human health.
(c) Sources and utilization of essential amino acids.
(d) Catabolic pathway in metabolism