

THE OPEN UNIVERSITY OF SRI LANKA B.SC. DEGREE PROGRAMME – LEVEL 05 FINAL EXAMINATION - 2006/2007 BOTANY BTU 3101/BTE 5101- ENVIRONMENTAL AND APPLIED MICROBIOLOGY

DURATION: TWO AND A HALF HOURS(2 1/2 HRS)

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Date:	25th	April	2007	Time:	10.00 am-	12-30	بد و

Answer any four (04) Questions.

- 01. a. Schematically illustrate the steps in the Nitrogen and Carbon cycle in nature.
 - b. Citing examples, discuss in detail the effects of human activities on the Carbon and Nitrogen cycles.
- 02. a. Giving examples, list the community types seen in an aquatic ecosystem.
 - b. Briefly explain the conditions that affect the microorganisms in water.
- 03. a. Give reasons why food has to be preserved?
 - b. Write a short account on the methods used in food preservation. Your answer should include the principles of the methods used, examples of food and the methods of processing.
- 04. a. What do you understand by the term "immunity" with reference to microbial infections?
 - b. Distinguish between natural and acquired immunity.
 - c. Outline in brief the various types of acquired immunity seen in the human body.
- 05. "Applications of recombinant gene technology is widely used in medicine, agriculture and control of environmental pollution". Comment on this statement with the help of examples.
- 06. Write short notes on any two (02) of the following
 - a. Manufacturing of Beer
 - b. Secondary(biological) treatment of municipal waste
 - c. Antagonistic interactions between microorganisms

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