

THE OPEN UNIVERSITY OF SRI LANKA B.SC. DEGREE PROGRAMME - LEVEL 05 FINAL EXAMINATION- 2007/2008 BOTANY

BTU 3101/BTE 5101- ENVIRONMENTAL AND APPLIED MICROBIOLOGY

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

Date: 7th June 2008 Time: 10.00a.m.-12.30 p.m.

Answer any four(04) questions.

- 01. a. What is a mycorrhizal association?
 - b. With the help of suitable drawings, briefly explain the different types of mycorrhizal associations including their structural and functional features.
 - c. State how the knowledge of mycorrhiza can be used to increase yield in cultivation.
- 02. Discuss in detail how water can be polluted indicating sources, effects and possible changes.
- 03. a. List the reasons for outbreaks of food-borne illnesses.
 - b. Explain two common food-borne illnesses giving their causative agents, how they are caused, symptoms and control.
- 04. a. Distinguish between natural and acquired immunity.
 - b. What are the factors that contribute to natural immunity?
 - c. Explain the type of immunity that could develop
 - (i) after receiving rabies immunoglobulins
 - (ii) after having mumps
 - (iii) after getting oral polio vaccine
 - (iv) in two months old baby
- 05. "Biological Control in the broader sense, could be defined as the use of living agents to control pests, plant pathogens and weeds" Justify this statement with examples.
- 06. Write short notes on any two (02) of the following.
 - a. Effect of the environment and agricultural practices in the Nitrogen Cycle
 - b. Low temperature as a method of food preservation
 - c. Use of aeration and coagulation in treating potable water

-Copyrights Reserved-