



THE OPEN UNIVERSITY OF SRI LANKA
B.Sc. DEGREE PROGRAMME
FINAL EXAMINATION – 2011/2012
BOTANY
BOU 3100//BTU 3101/BTE 5101 – ENVIRONMENTAL AND
APPLIED MICROBIOLOGY

DURATION – TWO HOURS (2 HRS)

DATE – 14th June 2012

TIME – 9.30 am – 11.30 am

ANSWER ANY FOUR (04) QUESTIONS.

01. (a) With the help of suitable drawings and named examples, explain briefly the structural and functional features of mycorrhizal associations.
- (b) With named examples, give a concise account on the role of microorganisms in cycling of nitrogen.
02. (a) Why is it important to treat sewage (waste water) before releasing into natural water bodies?
- (b) Describe the treatment processes of sewage in a conventional sewage treatment plant.
03. (a) Differentiate between acquired and innate (natural) immunity.
- (b) Explain briefly the types of innate immunity.
- (c) Giving examples, write a short account on various types of acquired immunity of an individual.
04. Give an account of principles and processes involved in the preservation of food.
05. Give a concise account of the use of microorganisms on each of the following.
- (a) Dairy industry
- (b) Bioremediation
- (c) Pharmaceutical industry

06. Write short notes on the following.

- (a) Microbial deterioration of wood
- (b) Medical applications of genetic engineering
- (c) Microbial communities in an aquatic habitat

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