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THE OPEN UNIVERSITY OF SRI LANKA
B.Sc.DEGREE PROGRAMME-LEVEL 05-2007/2008
BTU 3101/BTE5101 – ENVIRONMENTAL AND APPLIED MICROBIOLOGY
ASSESSMENT TEST II(NO BOOK TEST)

Duration – one hour

Reg. No.

Answer all questions in the space provided on this paper.

1. a. Write five medically important diseases and their causative agents in the space given below.

Diseases

Causative agents

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b. Distinguish between primary pathogens and opportunistic pathogens.

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c. Explain briefly the ways by which microorganisms cause diseases.

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2. a. If a pathogen is to survive in nature, it must undergo transmission from one host to another. Indicate the relevant disease/pathogen/method of transmission in the space given below.

Disease	Name of pathogen	Method of Transmission
.....		Direct sexual contact
.....	Dengue virus	
.....	<i>Salmonella typhi</i>	
Tuberculosis		
Bacillary dysentery		
.....	<i>Corynebacterium diphtheriae</i>	
.....	<i>Campylobacter</i>	

b. What are lymphocytes?

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c. How do T-cells and B-cells develop from lymphocytes?

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3. Some of the steps carried out during Beer manufacturing are given below. Discuss the actual process of each of the step in the production of beer.

Malting:

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Mashing:

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Fermentation:

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Maturation and finishing

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4. a. Give reasons as to why the use of microbial pesticides is beneficial compared to the use of chemical pesticides.

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