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THE OPEN UNIVERSITY OF SRI LANKA
B.Sc. DEGREE PROGRAMME – LEVEL 5 – 2008/2009
BTU 3101/BTE 5101 – ENVIRONMENTAL AND APPLIED MICROBIOLOGY
ASSESSMENT TEST II (NO BOOK TEST)

Duration – One (01) hour

Reg. No.

Date – 28th March 2009

Time – 11.00 a.m. – 12.00 noon

Answer all questions in the space provided.

This paper consists of four (04) questions and four (04) pages.

1. a). Diseases caused by fungi are called mycoses. Differentiate between dermatomycoses and systemic mycoses.

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b). Write five (05) systemic mycoses and one (01) causative agent for each disease.

Disease	Causative agent
i.	
ii.	
iii.	
iv.	
v.	

c). In terms of clinical symptoms, the course of a typical disease can be divided into five stages. List these stages giving a brief definition for each stage.

i.
.....
ii.
.....
iii.
.....

- iv.
.....
- v.
.....

2. a). Name the types of innate immunity.

- i.
- ii.
- iii.

b). Explain briefly the action of interferons on viruses. **No diagrams are required.**

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c). With the help of a suitable diagram/diagrams, explain briefly the procedure of the direct ELISA technique for detecting antigen.

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[illegible]

4. a). List the major steps in the production of a genetically engineered bacterium.

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b). List four (04) important characters of vectors used in genetic engineering.

- i.
- ii.
- iii.
- iv.

c). What are the sources of genes for cloning?

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d). Explain one application of genetic engineering to farm animals.

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