



R-3821-22

M. Sc. Biotech. (Int.) (Sem. V) (ATKT) Examination

May / June - 2010

IBT - 502 : Applied Microbiology

Time : Hours]

[Total Marks : 70

R-3821

Instruction :

नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवडी पर अवश्य कभवी.  
Fillup strictly the details of signs on your answer book.

Name of the Examination :  
M. SC. BIOTECH. (INT.) (SEM. 5) (ATKT)

Name of the Subject :  
IBT - 502 : APPLIED MICROBIOLOGY

Subject Code No. : 3 8 2 1 Section No. (1, 2,.....) : 1

Seat No. :

Student's Signature

- 1 Answer in brief : (5 out of 5) 10
- (a) Give examples of soil borne diseases in humans and plants.
  - (b) What is extramural and intramural aeromicrobiology?
  - (c) Which are the microbial flora of food?
  - (d) Draw the figure of phosphorous cycle.
  - (e) Give some examples of microbial products produced from the plant.
- 2 Answer the following : (any one) 10
- (a) Elaborate your views on Carbon cycle.
  - (b) Explain in detail on contamination, spoilage and preservation of food.
- 3 Write short notes : (any three) 15
- (a) Marine ecosystem
  - (b) Microbial analysis of air
  - (c) Microbial fermented food products from milk : Cheeses
  - (d) Single cell protein.

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[Contd...

## R-3822

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<input type="text"/> M. SC. BIOTECH. (INT.) (SEM. 5) (ATKT)	<input type="text"/> Student's Signature
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Subject Code No. : <input type="text"/> 3 <input type="text"/> 8 <input type="text"/> 2 <input type="text"/> 2	Section No. (1, 2,.....) : <input type="text"/> 2

- 4 Answer in brief : (5 out of 5) 10
- Give the basic differences between municipal and industrial wastewater.
  - Enlist the microbes producing glutamic acid.
  - Enlist the criteria needed for assessing biological threats to agricultural crops.
  - What is biological warfare?
  - Enlist the properties of useful microbes.
- 5 Answer the following : (any one) 10
- Enlist the treatments use for sewage water. Explain in detail about biological wastewater treatments.
  - Which are the known microbial threats? Explain various criteria needed for assessing biological threats.
- 6 Write short notes : (any three) 15
- Bioterrorism - Defense against it
  - Solid waste processing
  - Production of Amylase
  - Primary Vs. secondary metabolites.