



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 दशांशविक निशानीवाणी विगतो उत्तरवही पर अवश्य कभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="checkbox"/> M. SC. BIOTECH. (INT.) (SEM. 5) (ATKT)	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="checkbox"/> IBT - 502 : APPLIED MICROBIOLOGY	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="8"/> <input type="text" value="2"/> <input type="text" value="1"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="1"/>	<input type="text"/>
	Student's Signature

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

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Name of the Examination :	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
<input type="text" value="M. SC. BIOTECH. (INT.) (SEM. 5) (ATKT)"/>	<input type="text" value="Student's Signature"/>
Name of the Subject :	
<input type="text" value="IBT - 502 : APPLIED MICROBIOLOGY"/>	
Subject Code No. : <input type="text" value="3"/> <input type="text" value="8"/> <input type="text" value="2"/> <input type="text" value="2"/>	Section No. (1, 2,.....) : <input type="text" value="2"/>

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