



SB-3692

**M. Sc. (Integrated Biotechnology) (Sem. V)
Examination**

March / April – 2011

IBT 502 : Applied Microbiology

Time : Hours]

[Total Marks :

Instructions :

नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
M. SC. (INTEGRATED BIOTECHNOLOGY) (SEM. 5)	<input type="text"/>
Name of the Subject :	<input type="text"/>
IBT 502 : APPLIED MICROBIOLOGY	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="6"/> <input type="text" value="9"/> <input type="text" value="2"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="Nil"/>	
Student's Signature	

- 1 Answer the following in short (any **three**) 18
- Describe in brief about role of microbes in phosphorus cycle.
 - Give an overview about the soil borne diseases in humans and plants.
 - Briefly explain about the origin and type of microbes in air.
 - Discuss in brief about marine ecosystem.
- 2 Answer the following : (any **two**) 18
- Discuss in detail about microbial fermentation in food products from plants.
 - Elaborate your views about contamination and spoilage of food.
 - Describe in detail about single cell protein.
- 3 Answer the following : (any **three**) 18
- Briefly explain about the properties of useful microorganisms.
 - Discuss in brief about the anaerobic treatments used for municipal waste water.

- (iii) Explain : Production of amylase by microbes.
- (iv) Write a note on role of microbes in preparation of compost.

4 Answer the following : (any **two**) 16

- (i) Elaborate your views on known microbial threats.
 - (ii) Discuss in brief about role of rDNA technology in bioterrorism.
 - (iii) Describe the criteria for assessing biological threats to humans.
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