



**AC-2953**

**First Year B. Sc. (Med. Tech.) (Sem. II) Examination**  
**March / April - 2015**

**MT - 04 : Introduction to Microbial Diversity**

Time : 2 Hours]

[Total Marks : 50

**Instructions :**

(1)

नीचे दशांश देव निशान्नीवाणी विगतो उत्तरवडी पर अवश्य लपनी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="F. Y. B. Sc. (MED. TECH.) (SEM. 2)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="MT - 04 : INTRODUCTION TO MICROBIAL DIVERSITY"/>	<input type="text"/>
Subject Code No. : <input type="text" value="2"/> <input type="text" value="9"/> <input type="text" value="5"/> <input type="text" value="3"/>	<input type="text"/>
Section No. (1, 2,.....): <input type="text" value="Nil"/>	
	Student's Signature

(2) Draw labelled diagrams wherever necessary.

(3) Figures to the **right** indicate full marks of the question.

1 Answer the following :

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- (1) Why Antony van Leuwenhock is called the father of microbiology ?
- (2) Distinguish between bacteria and mycoplasma.
- (3) Define spontaneous generation.
- (4) What do you mean by taxonomic hierarchy ?

2 Attempt any two of the following:

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- (1) Discuss development of medical microbiology in detail.
- (2) Give the general characteristics and significance of fungi.
- (3) Write a note on 'Mycoplasma'.

- 3** Answer any two of the following: **14**
- (1) Give the structural detail of Eukaryotic cell.
  - (2) Compare between Actinomycetes and fungi.
  - (3) Explain physiological and metabolic characters of Microorganisms.
- 4** Write short notes on any two of the following : **14**
- (1) Morphology and characteristics of Protozoa.
  - (2) Nucleic acid hybridization.
  - (3) Contributions of Louis Pasteur.
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