



SC-3674

M. Sc. Integrated Biotechnology Examination

April / May - 2011

IBT - 304 Microbiology : I

Time : 3 Hours]

[Total Marks :70

**Instruction :**

(1)

नीचे दर्शायेव निशानीवाणी विगतो उत्तरवडी पर अवश्य कपनी. Fillup strictly the details of signs on your answer book.		Seat No. :
Name of the Examination :		<input type="text"/>
M. Sc. Integrated Biotechnology		<input type="text"/>
Name of the Subject :		<input type="text"/>
IBT - 304 Microbiology : 1		<input type="text"/>
Subject Code No. :	<input type="text"/> 3 <input type="text"/> 6 <input type="text"/> 7 <input type="text"/> 4	Student's Signature
Section No. (1, 2,.....):	Nil	

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

(3) Draw neat and labeled diagrams whenever necessary.

- 1 Attempt following : (any two) 18
  - (a) Write note on major groups of microbes
  - (b) Elaborate on early developments in microbiology
  - (c) Define : Microbiology and explain its importance in day to day life of human being with suitable examples.
- 2 Attempt any two : 18
  - (a) Explain about numerical taxonomy
  - (b) Describe about DNA homology experiment
  - (c) Describe three domain system of classification.
- 3 Write detailed note on any two : 18
  - (a) Nutritional requirement for bacteria
  - (b) Phase contrast microscopy
  - (c) Various isolation methods for bacteria.
- 4 Attempt any two : 16
  - (a) Describe in detail about the cell wall and cell membrane of bacteria.
  - (b) Explain the classification and economic importance of Algae
  - (c) Write note on protozoa.