



**SB-3454**

**M. Sc. (Part - I) Examination**

**March / April - 2011**

**Botany : Paper - I**

**(Biology & Diversity of Lower Plants -  
Microbials, Algae, Fungi, Plant Pathology) (Old Course)**

Time : 3 Hours]

[Total Marks : 52

**Instructions :**

(1)

नीचे दर्शाविए निशानीवाणी विगतो उत्तरवही पर अवश्य लिखी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="M. Sc. (PART - 1)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="BOTANY - 1 (OLD)"/>	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="4"/> <input type="text" value="5"/> <input type="text" value="4"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="1&amp;2"/>	<input type="text"/>
	Student's Signature

- (2) Answer to each section should be written in separate answer books.
- (3) Sketch neat and labelled diagrams wherever necessary.
- (4) Figure to the right indicate full marks of the questions.

**SECTION - I**

1 Describe nutrition in Bacteria and economic importance of Bacteria. **9**

**OR**

1 Classify with reasons Gloeocapsa and Anabaena, describe their thallus structure and reproductive bodies. **9**

2 Write notes on : **9**  
(1) Tobacco mosaic virus  
(2) Bacteriophage.

**OR**

2 Describe in detail general characteristics and role in causing plant diseases. **9**

3 Classify with reasons of Nitella and Corallina. Describe their thallus structure and reproductive bodies. **8**

**OR**

- 3 Describe : 8  
(1) Phylogeny of algae  
(2) Economic importance of algae.

**SECTION - II**

- 4 Give general account of Ascomycetes. 9

**OR**

- 4 Describe : 9  
(1) General characters of fungi.  
(2) Economic importance of Lichen.

- 5 Classify with reasons of following types : 9  
(1) Saprolegnia  
(2) Neurospora  
(3) Ustilago.

**OR**

- 5 Write notes on : 9  
(1) Powdery mildew of Grapes  
(2) Agents of non-infectious diseases.

- 6 Write notes on : (any two) 8  
(1) Red rot of sugar cane  
(2) Downy mildews of soyabean  
(3) Leaf curl of Tomato  
(4) Little leaf of Papaya.

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