



**SB-3456**

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

**March / April - 2011**

**Botany : Paper - III**

**(Taxonomy & Diversity of Seed Plants including Fossils)  
(Old Course)**

Time : 3 Hours]

[Total Marks : 52

**Instructions :**

(1)

नीचे दशांशिक 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="text" value="M. SC. (PART - 1)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="BOTANY - 3 (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="6"/>	Section No. (1, 2,.....) : <input type="text" value="1&amp;2"/>
	<input type="text" value="Student's Signature"/>

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

**SECTION - I**

- 1 Describe the external and internal structure of various organs of genera *Medullosa* and *Calamopitys*. **9**
- OR**
- 1 Give general account of *Cordiales*. **9**
- 2 Describe in detail the reproduction in *Nilssonia*. **9**
- OR**
- 2 Write notes on : **9**  
(1) Reproductive organs of *Cupressus*.  
(2) Vegetative organs of *Thuja*.
- 3 Give general account of *coniferales*. **8**
- OR**
- 3 Describe : **8**  
(1) Process of sexual reproduction in *Welwitschia*  
(2) External morphology of *Caytonia*.

## SECTION - II

- 4 Give an outline of Hutchinson's system of classification and discuss its merits and demerits. 9

OR

- 4 Discuss the phylogene and floral variations in Tubeflorae. 9
- 5 Classify with reasons the family Guttiferae and plumbaginaceae, describe their general characters and economic importance, cite scientific name of any two genera from each and every family. 9

OR

- 5 Classify with reasons the family Begoniaceae and Chenopodiaceae, describe their general characters and economic importance, cite scientific name of any two genera from each and every family. 9
- 6 Write notes on : (any two) 8
- (1) Principles of ICBN
  - (2) History of Botanical nomenclature
  - (3) Aims of plant taxonomy
  - (4) Taxonomic hierarechy.