



SB-3455

M. Sc. (Part - I) Examination

March / April - 2011

Botany : Paper - II

(Biology & Diversity of Lower Plants - Bryophyta,

Pteridophyta Including Fossils)

(Old Course)

Time : 3 Hours]

[Total Marks : 52

Instructions :

(1)

नीचे दशांशके निशानीवाणी विगतो उत्तरवही पर अवश्य लपवी. 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 - 2 (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="5"/>	Section No. (1, 2,.....) : <input type="text" value="1&2"/>
Student's Signature	

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

SECTION I

1 Give general account of Hepaticopsida. 9

OR

1 Classify with reasons Bryopsida and describe thallus structure and reproductive bodies of Polytrichum and Pogonatum. 9

2 Classify Class Filicopsida and describe in detail its general characters and reproduction. 9

OR

2 Describe : 9

- (i) Evolution of sporophytes in Bryophytes.
- (ii) Origin of Bryophytes.

3 Describe in detail the phylogeny and affinities of pteridophytes. 8

OR

3 Write notes on : 8

- (i) Importance of Heterospory.
- (ii) Origin of seed habit in Pteridophytes.

SECTION II

4 Describe in detail the types of fossils and their significance. 9

OR

4 Write notes on : 9

- (1) General characters of Lycopsidea
- (2) Geological time table.

5 Explain the classification, general characters and reproduction in Sphenopsida. 9

OR

5 Give an account of Zygopteris. 9

6 Write notes on : (any two) 8

- (1) Classification of Adiantum
 - (2) External morphology of Botrychium
 - (3) Reproductive structure of Actinopteris
 - (4) Anatomy of Polypodium.
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