



**RF-3504-05**

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

**April/May - 2010**

**Botany : Paper - II**

*(Biology & Diversity of Lower Plants -  
Bryophyta, Pteridophyta including Fossils)*

Time : 3 Hours]

[Total Marks : 52

**RF-3504**

**Instructions :**

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. 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"/>	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="5"/> <input type="text" value="0"/> <input type="text" value="4"/>	Section No. (1, 2,.....) : <input type="text" value="1"/>
Student's Signature	

(2) Answer to each section should be written in **separate** answer books.

(3) Sketch neat and labelled diagrams wherever necessary.

(4) Figures to the right indicate marks of the questions.

1 Write an illustrated account of the progressive development of sporophytes in bryophytes. **9**

**OR**

1 Give a comparative account of gametophytes in bryophytes with special reference to the types studied by you. **9**

2 Describe the general characters, interrelationships and phylogeny of Anthocerotopsida. **9**

**OR**

2 Explain the evolution of sori and sporophylls of pteridophytes. **9**

3 Describe : **8**  
(a) Cyathodium  
(b) Importance of heterospory.

**OR**

3 Explain the classification, general characters and reproduction of *Polytrichum*. **8**

**RF-3504-05]**

**1**

**[Contd...**

## RR-3505

### Instructions :

(1)

नीचे दशांशविले निशानीवाणी विगतो उत्तरवडी पर अवश्य लभवी.  
Fillup strictly the details of signs on your answer book.

Name of the Examination :  
M. Sc. (Part-1)

Name of the Subject :  
Botany - 2

Subject Code No. : 3 5 0 5 Section No. (1, 2,.....) : 2

Seat No. :

Student's Signature

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

4 Explain the classification, general characters and reproduction of Filicopsida. 9

OR

4 Give an account of *Calamophyton*. 9

5 Describe the types of fossils and their significance. 9

OR

5 Give an account of *Lygodium*. 9

6 Write on (any two) :

(a) *Sigillaria*

(b) *Cyathea*

(c) *Pteris*

(d) *Polypodium*