



RF-3508-09

M. Sc. (Part - I) Examination

April / May - 2010

Botany : Paper - IV

(Plant Development & Reproduction)

Time : 3 Hours]

[Total Marks : 54

RF-3508

Instructions :

(1)

नीचे दशांशके निशानीवाणी विगतो उत्तरवडी 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. - 1"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="BOTANY - 4"/>	<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="8"/>	Section No. (1, 2.....) : <input type="text" value="1"/>
	<input type="text" value="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 Explain structure and development of sieve elements. 10

OR

1 Describe the formation of primary and secondary cell wall and add a note on its components. 10

2 Describe the structure and development of roof apex. 9

OR

2 Describe the anatomical types of nodes giving examples and discuss their phylogenetic relationships. 9

3 Describe the structure and types of sclerides found in different organs of plants. 8

OR

3 Describe the various types and causes of polyembryony. 8

RF-3509

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(1)

नीचे दशांशों में निशानीवाणी विगतो उत्तरवही पर अवश्य लिखनी. Fillup strictly the details of signs on your answer book.		Seat No. :	
Name of the Examination :		□ □ □ □ □ □	
M. Sc. - 1		Student's Signature	
Name of the Subject :			
BOTANY - 4			
Subject Code No. :	3 5 0 9	Section No. (1, 2,.....) :	2

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

4 Give an account of male sterility in angiospermic plants. 10

OR

4 Describe the embryo development in Dicotyledonous plants. 10

5 What is endosperm? Describe the various types of endosperms giving suitable examples. 9

OR

5 Write notes : 9

(a) Leaf development

(b) Stomata

(c) Trichomes

6 Describe : (any two) 8

(a) p-protein

(b) Functions of endosperm

(c) Embryo culture

(d) Environmental Parthenocarpy.