



S-2630

M. Sc. - I Examination

March / April - 2011

Botany : Paper - 404

(Plant Development &
Reproduction - Anatomy & Embryology)

Time : Hours]

[Total Marks :

Instructions :

(1)

नीचे दर्शावेक 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. - 1"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="BOTANY - 404"/>	<input type="text"/>
Subject Code No. : <input type="text" value="2"/> <input type="text" value="6"/> <input type="text" value="3"/> <input type="text" value="0"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="1&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) Figures to the **right** indicate marks of the questions.

SECTION - I

- 1 Describe (any two) 14
 - (i) Apical cell concept and hustogenic layer concept.
 - (ii) Anatomy of phyllodes
 - (iii) History of embryology.
- 2 Write (any two) 14
 - (i) Development and structure of male gametophyte.
 - (ii) Primary structure of monocot leaf
 - (iii) Newman's theory.
- 3 Describe (any two) 14
 - (i) Methods to break dormancy.
 - (ii) Origin and development of sclereids.
 - (iii) Embryo development in lactuca sativa.

SECTION - II

- 4 Write notes (any two) 14
- (i) Parthenogenesis.
 - (ii) Pollen culture.
 - (iii) Embryogeny in *ludwigia palustris*.
- 5 Describe-seed dormancy.
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