



A-1540

M. Sc. (Sem. III) Examination

March/April – 2015

303 : Botany

(Genetics, Biotechnology & Bioinformatics)

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दर्शायेव निशानीवाणी विगतो उत्तरवही पर अवश्य लपनी. 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. (Sem. III)"/>		<input type="text"/>
Name of the Subject :		<input type="text"/>
<input type="text" value="303 - Botany"/>		<input type="text"/>
Subject Code No. : <input type="text" value="1"/> <input type="text" value="5"/> <input type="text" value="4"/> <input type="text" value="0"/>	Section No. (1, 2,...):	<input type="text" value="Nil"/>
		<input type="text" value="Student's Signature"/>

- (2) Sketch neat and labeled diagram wherever necessary.
(3) Figures to the right indicate full marks of the question.

- 1 Describe : (any two) 14
(1) Advantage and limitation of Micro propagation.
(2) Scope and importance of plant tissue culture.
(3) Artificial seed.
- 2 Explain:
(1) Principles and methods of recombinant DNA technology
(2) Polymerase chain reaction (PCR).
- 3 Write briefly 14
(1) Tools of bioinformatics
(2) Genome database.
- 4 Describe : (any two) 14
(1) Benefits and problems from IPR
(2) The protection of plant varieties and Farmer's rights Act:2001
(3) World Intellectual property organization (WIPO).
- 5 Write notes on : (any two) 14
(1) World Trade Organization (WTO)
(2) Callus culture
(3) Somaclonal variation.