



**RE-3628-29**

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

**April / May – 2010**

**Botany : Paper - V**

*(Cytology, Genetics, Biotechnology, Genetic Engineering, Plant Resources)*  
*(New Course)*

Time : 3 Hours]

[Total Marks : 52

**RE-3628**

**Instructions :**

(1)

नीचे दशांशक निशानीवाणी विगतो उत्तरवही पर अवश्य कर्जवी. 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. - 2"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="BOTANY - 5 (NEW)"/>	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="6"/> <input type="text" value="2"/> <input type="text" value="8"/>	Section No. (1, 2,.....) : <input type="text" value="1"/>
Student's Signature	

- (2) Answers to each section should be written in separate answer book.  
(3) Neat, correct and labelled diagrams will add to the value of the answer.  
(4) Figures to the right indicate full marks of each question.

1 Discuss C-value paradox and cot curve and its significance. **10**

**OR**

1 Discuss ultrastructure of nuclear membrane and nuclear pore and their function. **10**

2 Describe the numerical abnormalities in the chromosomes and their effect on the characters of organisms. **10**

**OR**

2 Explain : **10**  
(a) Ultrastructure of Golgibodies.  
(b) Metabolic activity of Endoplasmic reticulum and Lysosomes.

3 Explain : **10**  
(a) Agrobacterium  
(b) DNA finger printing.

**OR**

3 Write briefly : **10**  
(a) PCR (Polymerase chain reaction)  
(b) Organogenesis

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Subject Code No. :		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Section No. (1, 2,.....) :		<input type="text"/>
3		6	2	9	2		Student's Signature	

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4 Make a list of plants yielding tropical fruits. Give their botanical names and describe the morphology of their edible parts. **10**

OR

4 Justify the economic value of following : **10**  
(a) Tea  
(b) Cocoa  
(c) Tobacco

5 Describe : **12**  
(a) Biodegradation  
(b) Natural Dyes

OR

5 Write notes on : **12**  
(a) Paper industry in India.  
(b) Cultivation of Mushrooms.