



**SB-3525**

**M. Sc. - II Examination**

**March / April - 2011**

**Botany : Paper - V**

Time : Hours]

[Total Marks :

**Instructions :**

(1)

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

Name of the Examination :  
**M. Sc. - 2**

Name of the Subject :  
**Botany - 5**

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

Seat No. :

Student's Signature

- (2) Answers to the two sections must should be written in separate answer books.
- (3) Neat, correct and labelled diagrams will add to the value of answer.
- (4) Figures to the right indicate full marks of the questions.

**SECTION - I**

- 1 Describe : 10  
(1) Principle and scope of Bio-technology  
(2) DNA finger printing.

**OR**

- 1 Explain mitosis with the help of diagrams. Give various differences between mitosis and meiosis. 10
- 2 Describe the structure and function of chloroplast and Golgibodies. 10

**OR**

- 2 Write briefly : 10  
(1) PCR (Polymerase Chain Reaction)  
(2) Clonal propagation.
- 3 Describe size, shape, structure and molecular organisation of chromosomes. 10

**OR**

- 3 Write notes on : 10  
(1) Artificial seed  
(2) Cot curve and its significance.

**SECTION - II**

- 4 Write briefly : 12  
(1) Raw materials and manufacture of paper  
(2) Stem vegetables.

**OR**

- 4 Justify the economic value of following : 12  
(1) Tobacco  
(2) Coffee  
(3) Juicy fruits.

- 5 Write notes on : 10  
(1) Cultivation of mushrooms  
(2) Natural Dyes.

**OR**

- 5 Write notes on : 10  
(1) Spices  
(2) Sugar beet and palm sugar.

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