H-55027  
M. Sc. (Part - I) Examination  
April / May – 2003  
Life Sciences : Paper - II  
(Elements of Plant Science)

Time : 3 Hours]  
[Total Marks : 100

Instructions :  
(1) All questions are compulsory.  
(2) All questions carry equal marks.  
(3) Illustrate your answer with neat diagrams.

1  Classify plants with reasons.

OR

1 Write notes on :  
(a) Comparative anatomy of gymnosperms and angiosperms  
(b) Alternation of generation.

2 Write notes on :  
(a) Fertilization in angiosperms  
(b) Food plants.

OR

2 Write notes on :  
(a) In–compatibility  
(b) Medicinal plants.

3 Write notes on :  
(a) Factors affecting seed dormancy  
(b) Mechanism of transpiration.

OR

3 Write notes on :  
(a) Bioassays  
(b) C₄ cycle.

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[Contd...
4 Examine various objectives of plant breeding.

OR

4 Write notes on:
(a) Conventional methods employed in plant breeding
(b) Genetic Engineering.

5 Describe the analytical characters of plant community.

OR

5 Write notes on:
(a) Biotic components of ecosystem
(b) Nitrogen cycle.