

H-55027

Seat No. _____

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.

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.
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