

AC-3368

Seat No. _____

M. Phil. Examination

April / May – 2003

Botany : Paper - III

(Elective : Plant Physiology)

Time : 3 Hours]

[Total Marks : 100

- Instructions :** (1) All questions are **compulsory**.
(2) All questions carry **equal** marks.
(3) Illustrate your answers with suitable diagrams.

- 1** Examine various physiological changes taking place during seed germination.

OR

- 1** Write notes :

- (a) Phytochrome system in relation to seed dormancy
(b) Role of low temperature to break seed dormancy,

- 2** Write notes on :

- (a) Florigen concept
(b) Role of light in floral induction.

OR

- 2** Examine recent advances in our knowledge in the area of flowering.

- 3** Write notes on :

- (a) Role of ethylene
(b) Bioassays of gibberellins.

OR

- 3** Discuss the mechanism of action of any plant hormone.

4 Describe the salt injury and resistance in plants.

OR

4 Write notes on :

(a) Frost resistance

(b) Drought injury.

5 Write notes on :

(a) Brief account of theories to explain senescence of leaves.

(b) Root-shoot differentiation.

OR

5 Write notes on :

(a) Abscission

(b) Role of ABA in plants.
