AC-3368 Seat No. ____

M. Phil. Examination
April / May – 2003
Botany : Paper - III
(Elective : Pant 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.

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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.