

# PC-809/ML

U-13/2051

BOTANY–XII-(b)

(For Non-Medical Student)

Time : Three Hours]

[Maximum Marks : 60

**Note** : Attempt *two* questions each from Section A and B carrying 10 marks each and the entire Section C consisting of 10 short answer type questions carrying 2 marks each.

## SECTION–A

- I. Explain two types of root system and their modifications. 10
- II. Explain the structure of typical leaf and its modifications. 10
- III. What is Pollination ? Explain characters of wind pollinated plants. 10
- IV. Explain the structure of dicot seed and its germination. 10

## SECTION-B

- V. What is fruit ? Explain its various types. 10
- VI. Explain the internal structure of Dicot stem. 10
- VII. Explain the diagnostic characters and economic importance of family malvaceae. 10
- VIII. Explain various methods of dispersal of fruit and seeds with examples. 10

## SECTION-C

### (Compulsory Question)

- IX. Answer the following :
- (a) Phylloclade and cladode.
  - (b) Cymose inflorescence.
  - (c) Two characters of insect pollinated plants.
  - (d) Orthotropous ovules.
  - (e) Annuals and Biennial plants.
  - (f) Essential floral parts.
  - (g) Parthenocarpic fruits.

(h) Mesophyll tissue.

(i) Capitulum inflorescence.

(j) Name *two* pulses (Botanical names). (2×10=20)

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