Total Pages: 2

PC-1217/ML

U-30/2051

GROWTH AND DEVELOPMENT OF HORTICULTURAL CROPS

Paper-XVI (Semester-II)

Time : Three Hours] [Maximum Marks : 45

Note: Attempt *two* questions each from Section A and B. Section C will be compulsory. Section A consisting of 4 questions carry 6½ marks each. Section B consisting of 4 questions carry 7 marks each. Section C consisting of 9 short answer type questions carry 2 marks each.

SECTION-A

- I. Define growth and development. Explain Canopy photosynthesis and productivity.
- II. Discuss the following:
 - (a) Canopy development.
 - (b) Growth analysis in horticultural crops.
- III. What do you mean by plant bio-regulatiors? Explain auxins and gibberelin.
- IV. Define flowering. Discuss factors affecting flowering.

SECTION-B

- V. Describe vernalisation and its application in horticulture.
- VI. Explain various causes and breaking methods of seed dormancy in horticultural crops.
- VII. Define fruit setting. Discuss factors affecting fruit set and development.
- VIII. Write a note on physiology of ripening of fruits.

SECTION-C

- IX. Write short notes on following:
 - (a) Non-climacteric fruits.
 - (b) Day neutral plants.
 - (c) Retardants.
 - (d) Fruit drop.
 - (e) Propagation.
 - (f) Training and Pruning.
 - (g) Photoperiodism.
 - (h) Seed dormancy.
 - (i) Leaf area index.