

**B.VOC. DEGREE EXAMINATION, JANUARY 2018****First Semester**

Complementary Course—FUNDAMENTALS OF HORTICULTURE

(For B.Voc. Programming in Food Processing Technology)

[2014 Admission onwards]

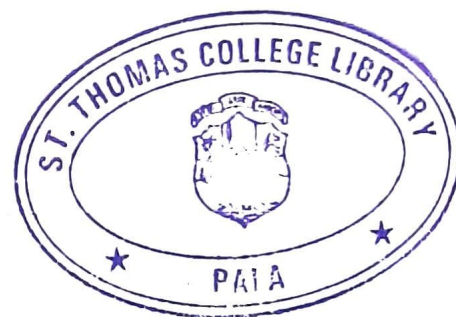
{Regular/Supplementary}

Time : Three Hours

Maximum : 80 Marks

**Part A***Answer all questions.**Each question carries 1 mark.*

1. What is arboriculture ?
2. What is plant propagation ?
3. What is budstick ?
4. What are scaffold branches ?
5. What are root cuttings ?
6. What is fIBA ? Mention its significance.
7. What is a seed orchard ?
8. What are runners ?
9. What is flat nursery bed ?
10. What is acclimatization ?



(10 × 1 = 10 marks)

**Part B (Brief Answer Questions)***Answer any eight questions.**Each question carries 2 marks.*

11. What is flute budding ?
12. Mention the principle underlying in grafting.
13. What are hardwood cuttings ?
14. Enumerate the features of net house.
15. List the environmental factors associated with fruit setting.

**Turn over**

16. List any two benefits of thinning of fruit trees.
17. What is central leader system of training in plants ?
18. Write about nutrient composition in fruits.
19. What is tip layering ?
20. What is leaf cutting ? Give an example.
21. What is depotting ?
22. What is a perfect tree form ?

(8 × 2 = 16 marks)

### Part C

*Answer any six questions.  
Each question carries 4 marks.*

23. Briefly describe the importance of horticulture in India.
24. What is budding? Explain shield budding with examples.
25. Comment on the role of growth hormones in maintaining balance between vegetative and reproductive phases in plants.
26. List the disadvantages of sexual method of reproduction in plants.
27. Explain the construction of cold frame. Mention its uses.
28. Write about process concerned with fruit setting.
29. Write a note on design and structural adaptation to maintain microclimate in green house.
30. Explain any four reasons for selection of budding in plants.
31. Briefly explain the significance of proximity to customers, labour and services in nursery-site selection.

(6 × 4 = 24 marks)

### Part D (Long Answer Questions)

*Answer any two questions.  
Each question carries 15 marks.*

32. Describe planning and establishment of an orchard.
33. Discuss methods of grafting practiced in horticulture. Add a note on factors affecting successful graft formation.
34. Give an account of different components of an established nursery.
35. With diagrams explain the procedure for marcotting in plants.

(2 × 15 = 30 marks)