

**ACFHO**

Register No.

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**2018**

**HORTICULTURE**

**Duration : 3 Hours**

**Max. Marks : 300**

*General Instructions to the Applicants :*

- i) This Question Paper is descriptive type in Degree Standard.
- ii) There is no reservation of marks for neatness of execution and correctness of spelling in respect of this paper.

TNPSC SPECIMEN

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# HORTICULTURE

## PART — A

- Note :**
- i) Answer not exceeding 50 words each.
  - ii) Each question carries three marks.
  - iii) Answer any thirty questions only out of thirty five Questions.  
(30 × 3 = 90)

1. What is osmotic dehydration? What are its uses?
2. Define hydroponics. Name any one nutrient solution used under Hydroponics.
3. Write the role of temperature and humidity on rooting of cutting.
4. Write short notes on “Fruit cracking” in pomegranate.
5. List three orange/crimson colour flowering trees.
6. Write the chemical composition of Periwinkle.
7. Mention the role of growth regulators in flower induction of pine apple.
8. Write short notes on role of “Anti transpirants” in dry land farming.
9. Explain ‘Netting’ technique in carnation.

10. Mention the spacing and planting density followed in Papaya cultivation.
11. Define "Fruit cracking" in Litchi? Mention the overcome methods.
12. Write commercial varieties of Ber and their characteristics.
13. Mention four important varieties of onion suitable for commercial cultivation.
14. Mention two varieties of cluster bean and the different uses of cluster bean.
15. What are the pole type lablab varieties developed at TNAU, Coimbatore and mention the special features.
16. Mention any three species in Jasmine.
17. List out three white flowering shrub.
18. Mention three yellow colour flowering trees.
19. Write about the commercial uses of Vanilla.
20. Write about the improved varieties of cumin.
21. Write the varieties of coriander suitable for growing under Tamilnadu.
22. Define sphagnum moss. Write the importance and uses of Sphagnum moss.

23. Write the genetic variations existed in asexually propagated plants.
24. Differentiate seedling population and clonal population.
25. Mention the influences of endogenous ethylene in plants.
26. Define 'Metaxenia' effect. Mention two examples for this effect.
27. Mention the two functions of pollination.
28. What is vegetable forcing and narrate an example?
29. Define nutrition or kitchen garden. Write its significance in human life.
30. Define photoperiodism. How the plants are classified based on photoperiodism?
31. What are the uses of Stevia and mention its chemical composition of leaves?
32. Write the harvesting and yield of Senna.
33. Write the propagation technique of Senna.
34. What is lacquering and what are the types of lacquers?
35. Define blanching. What are the advantages and dis-advantages of blanching?

## PART — B

**Note :** i) Answer not exceeding 100 words each.

ii) Each question carries eight marks.

iii) Answer any fifteen questions only out of eighteen Questions.

(15 × 8 = 120)

36. Write in details of Eight garden components in a garden?
37. Explain the physiological disorders in cauliflower and the methods to overcome the disorders.
38. Write in brief about the medicinal uses of spices with the alkaloid present.
39. Explain the different principles in landscape gardening with suitable examples.
40. Write the propagation, planting and intercultural operations and harvesting for coccinia.
41. Explain the importance of fruits in human nutrition.
42. Explain the role of Biofertilizers on horticulture crops.
43. Explain the different points to be considered for planning of a new Orchard?

44. What are the different types of budding techniques and explain T budding with examples?
45. What is air layering and write in detail about the steps involved in preparation of air layering.
46. Define photosynthesis. Discuss the different types of photosynthesis with suitable examples.
47. Define pollination. Discuss the various types of pollination with suitable examples.
48. Write an essay on vegetable forcing and give a detail account on special structures used for vegetable forcing.
49. Write in detail about the role of horticultural crops based on nutrient supplements and give examples.
50. Write about the propagation, uses and nutrient management of Davana.
51. Discuss about the improved varieties of mint and the distillation technology.
52. Discuss about the various methods of freezing used for the preservation of fruits and vegetables.
53. What do you mean by dehydration? Discuss the common driers used for drying of fruits and vegetables.

## PART — C

**Note :** i) Answer not exceeding 200 words each.

ii) Each question carries fifteen marks.

iii) Answer any six questions only out of nine questions.

(6 × 15 = 90)

54. Write in detail about propagation, methods, varieties and different methods of tapping practices followed in Rubber cultivation.
55. Describe the different types and styles of Bonsai. List the tools and implements used in Bonsai cultivation.
56. Explain the special pruning techniques followed in fruit crops with suitable diagrams.
57. Explain the various "Organic manures" and its nutrient contents.
58. Describe in brief about the plantation Industry in India. Enumerated with socio-economic importance.
59. Explain the various uses of plant growth regulation in horticultural crops.
60. Write in detail about the role of horticulture crops in State, National and Global scenario with illustrations.
61. Discuss in detail about the production technology of Eucalyptus along with its distillation process.
62. What are the objectives of storage and enumerate the different storage technology used for storing of horticultural crops?