

WSS

060/21

Total Number of Questions : 32

Time : 3.00 Hours

Max. Marks : 200

1. Define 'horticulture'. (2 Marks)
2. Define 'apomixis'. (2 Marks)
3. Define micropropagation. (2 Marks)
4. Define 'floating garden'. Where in India it is seen ? (2 Marks)
5. Differentiate between 'spices' and 'condiments'. (2 Marks)
6. Describe different methods of planting a lawn. (4 Marks)
7. Explain the method of papain extraction from papaya. (4 Marks)
8. Seedlessness is considered as a desirable character in horticultural crops, substantiate. How does it occur in horticultural crops ? Mention different methods to induce it. (4 Marks)
9. Briefly describe modified atmospheric storage method. (4 Marks)
10. List out the criteria of selecting good mother trees in cashew for seed production. How good seed nuts are identified and sorted out ? (4 Marks)
11. Name five major divisions of horticulture. Briefly mention the subject area and crops dealt in each division. (5 Marks)
12. Give the vernacular name, botanical name and family of the following horticultural crops. (5 Marks)
 - a) Avocado
 - b) Mangosteen
 - c) Rambutan
 - d) Pomegranate
 - e) Sapota
 - f) Guava
 - g) Custard apple
 - h) Passion fruit
 - i) Oil-palm
 - j) Cocoa.
13. Briefly discuss the importance of vegetables as a balanced diet and protective food. (5 Marks)
14. What is the purpose of fermenting cocoa beans ? Briefly describe different methods of cocoa bean fermentation. (5 Marks)
15. What are the various value added products of coconut, other than copra and oil and mention their uses ? (5 Marks)
16. Despite the earnest efforts of the government, area, production and productivity of vegetables in the state are declining. Discuss reasons and give suggestions for improving the situation. (5 Marks)

17. Differentiate between a true seed and a horticultural seed. Enumerate the advantages and disadvantages of seed propagation. (5 Marks)
18. Give the PoP of pineapple cultivation in Kerala as recommended by KAU, mentioning planting season, suitable varieties, preparation of land, selection and treatment of suckers, planting, manuring and early induction of flowering. (7 Marks)
19. Give the recipe for preparing one litre of pineapple squash. Describe the procedure of its preparation and bottling. (7 Marks)
20. Define bearing habit in fruit trees and elucidate its importance in perennial horticultural crops. Enumerate the grouping of fruit trees based on bearing habit. (7 Marks)
21. Briefly describe post-harvest processing of black pepper to produce the following products (a) Black pepper of commerce (b) White pepper (c) Dehydrated green pepper (d) Pepper oil and (e) Pepper oleoresin. (7 Marks)
22. Differentiate between a botanical fruit and horticultural fruit. What are the three major groups of fruits classified based on climatic requirements? Briefly explain each. (7 Marks)
23. Discuss the problems of horticulture sector in Kerala State. (10 Marks)
24. Discuss the prospects of horticulture sector in Kerala State. (10 Marks)
25. Define seed dormancy. Explain various methods to overcome seed dormancy. (10 Marks)
26. Discuss seed extraction, seed treatment methods and nursery practices in cardamom. (10 Marks)
27. Define the term 'orchard'. Briefly mention the objectives of laying out of an orchard. Discuss the important systems of orchard layout. (10 Marks)
28. Define pre-cooling and mention its relevance in fruits and vegetables. Explain various pre-cooling methods. (10 Marks)
29. What are the objectives and advantages of High Density Planting (HDP) in fruit crops? Explain various HDP methods. (10 Marks)
30. Define plant growth regulators. Describe various applications of plant growth regulators in horticulture. (10 Marks)
31. Explain the significance and objectives of training of perennial horticultural crops. Give details of major training systems being practiced. (10 Marks)
32. List out the factors to be considered for selecting a site for a commercial plant nursery. Briefly explain the different components of a commercial plant nursery. (10 Marks)
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