

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086**  
(For candidates admitted from the academic year 2011 – 12 & thereafter)

**SUBJECT CODE: 11BT/ME/HC23**

**B. Sc. DEGREE EXAMINATION, APRIL 2014**  
**BRANCH V (A) – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY**  
**SECOND SEMESTER**

**COURSE : MAJOR - ELECTIVE**  
**PAPER : HORTICULTURE**  
**TIME : 3 HOURS** **MAX. MARKS: 100**

**SECTION – A**

**ANSWER ALL QUESTIONS**

**I. CHOOSE THE RIGHT ANSWER** **(5 x 1 = 5)**

1. The popular variety of Mango is  
(a) Rumani (b) Poovan (c) Anakkapalli (d) Karpooravalli
2. The implement used for pruning small branches up to pencil thickness is  
(a) Crow bar (b) Secateur (c) Water can (d) Scythe
3. A sterile mica product used as rooting medium is  
(a) Guana (b) Night soil (c) Vermiculite (d) Vermicompost
4. Plant best suited in hanging basket is  
(a) *Bougainvillea* (b) *Allamanda* (c) *Opuntia* (d) *Asparagus*
5. Which one of the following is not used in fresh flower arrangement?  
(a) pods (b) *Chrysanthemum* (c) Orchid (d) Rose

**II. FILL IN THE BLANKS** **(5 x 1 = 5)**

6. A plant which completes its life cycle in one year is called \_\_\_\_\_.
7. An example of a thickened, fleshy, modified underground stem or root which functions as a storage organ is \_\_\_\_\_.
8. \_\_\_\_\_ is a technique in which evergreen shrubs are pruned into geometrical shapes..
9. \_\_\_\_\_ garden refers to producing some special crops in relatively large quantities for distant market.
10. \_\_\_\_\_ refers to cultivation of trees.

**III. STATE WHETHER TRUE OR FALSE****(4 x 1 = 4)**

11. Compost pits are placed in the corners of the garden.
12. Trowel is used to sieve fine particles of soil or sand.
13. Grafting between the species of the same genus is known as inter-specific grafting.
14. Brinjal is a leafy vegetable.

**IV. MATCH THE FOLLOWING****(4 x 1 = 4)**

- |                        |   |                    |
|------------------------|---|--------------------|
| 15. Sprinkler          | - | Leaf cutting       |
| 16. Ikebana            | - | Bulb               |
| 17. <i>Bryophyllum</i> | - | Lawn               |
| 18. Onion              | - | Flower arrangement |

**V. ANSWER ANY SIX OF THE FOLLOWING QUESTIONS IN 50 WORDS EACH****(6 x 3 = 18)**

19. Scope of Horticulture (Any Two).
20. Terrarium.
21. Kitchen garden.
22. Hanging Basket.
23. 'T' budding.
24. Compound layering.
25. Uses of Pickaxe.
26. Market garden.
27. Vegetable forcing

**SECTION - B****ANSWER ANY FOUR OF THE FOLLOWING QUESTIONS IN 200 WORDS EACH.****DRAW DIAGRAMS WHEREVER NECESSARY:****(4 x 6 = 24)**

28. Give the classification of Horticultural plants.
29. Describe plant propagation through cuttings.
30. Briefly describe the structure and construction of a Rock garden.
31. Write an account on Bonsai technique.
32. Discuss green house usage in Horticulture.
33. Describe any two cut flowers.

**SECTION – C****ANSWER ANY TWO OF THE FOLLOWING QUESTIONS IN 1000 WORDS EACH.****DRAW DIAGRAMS WHEREVER NECESSARY:****(2 x 20 = 40)**

34. Describe the different methods of grafting.
35. Write an account on propagation, planting and harvesting of Banana and Guava.
36. Discuss the techniques of growing plants in pots.
37. Write an essay on Lawn making.

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