

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted from the academic year 2008-09 & thereafter)

SUBJECT CODE: BT/ME/HC24

B. Sc. DEGREE EXAMINATION, APRIL 2010
BRANCH V (A) – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY
SECOND SEMESTER

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

SECTION – A

ANSWER ALL QUESTIONS

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

1. The rooted plants in grafting is called as
a. stock b. scion c. explant d. stock and scion
2. The branch of science that deals with cultivation of fruit yielding plants.
a. Olericulture b. Floriculture c. Agriculture d. Pomology
3. Porous pot is important because it
a. promotes root growth b. allows exchange of gases
c. allows exchange of moisture d. retains moisture
4. Which of the following is suitable for lawns?
a. *Cyanodon* b. *Cymbopogon* c. *Citronella* d. *Quisqualis*
5. The culture of plants with root medium in exclusively water fortified in dissolved nutrients is called
a. aeroponics b. hydroponics c. geponics d. bonsai

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

6. The removal of foliage is by
7. is a type of garden laid above the ground level.
8. A mixture of 40% sand, 40% silt and 20% clay produces soil.
9. The most predominantly grown grass in lawn is
10. Invention of hydroponics is credited to

III MATCH THE FOLLOWING (4 x 1 = 4)

- | | | |
|------------------|---|-----------------|
| 11. Mist chamber | - | a. Olericulture |
| 12. Radish | - | b. Rockery |
| 13. Cactus | - | c. Cut flower |
| 14. Rose | - | d. Glass House |

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

15. IAA is used for the initiation of roots.
16. The earthenware pots are not ideal for cultivation of plants.
17. Garden seats and fountains are the garden adornments.
18. Soilless culture is otherwise called Hydroponics.

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

19. Mention any three garden implements and its uses.
20. Distinguish between agriculture and horticulture.
21. Mention the propagation method used for Guava, Papaya and Banana.
22. Write the binomial for Onion, Brinjal and Lady's finger.
23. Mention any three plants in terrace garden and hanging basket.
24. Draw the lay out of a kitchen garden.
25. What is a lawn?
26. Mention the uses of mist chamber.
27. Vegetable forcing.

SECTION - B**ANSWER ANY FOUR OF THE FOLLOWING IN 200 WORDS: (4 x 6 = 24)**

28. Give an account of classification of Horticulture.
29. Briefly explain the market and truck garden
30. Describe the cultural practices followed in Banana cultivation.
31. Write notes on structure and importance of green house.
32. Discuss the selection of container and plant species for terrarium
33. How will you construct a Rock Garden?

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

34. Explain the technique used in the cultivation of plants in pot. Mention the Do's and Don'ts during pot culture technique.
35. Explain the types of layering and grafting.
36. Define Bonsai. What are the principle and procedure for Bonsai cultivation?
37. Write detailed notes on flower arrangement.
