



MAR IVANIOS COLLEGE (AUTONOMOUS)
THIRUVANANTHAPURAM

Reg. No.:.....

Name:.....

Sixth Semester B.Sc. Degree Examination, April 2018

First Degree Programme under CBCSS

Core Course: Botany – IX

AUBO643: Horticulture, Plant Breeding & Research Methodology

(Common for **Regular** – 2015 and **Reappearance** – 2014 Admn.)

Time: 3 Hours

Max. Marks: 80

SECTION – A

Write short notes on ALL the following.

1. Topiary
2. Ikebana
3. Quarantine
4. Index cards
5. Online journal
6. Rockery
7. Name a garden tool
8. Heterosis
9. NBPGR
10. Inbreeding depression

(10 × 1 = 10 Marks)

SECTION – B

Answer any EIGHT questions, not exceeding one paragraph.

11. Differentiate grafting and layering.
12. What is the difference between mass and pureline selection?
13. What is mutation breeding?
14. Differentiate between Hedges and Edges.
15. Differentiate intergeneric and interspecific hybridization.
16. What is Vermiculture?
17. Describe any two suitable methods for irrigation of vegetables.
18. Differentiate ISSN and ISBN.

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19. Write notes on plant introduction.
20. Describe any two statistical tools used in research.
21. Describe clonal selection.
22. Biofertilizers

(8 × 2 = 16 Marks)

SECTION – C

*Short essay type: Answer any **SIX** questions.*

23. Write notes on garden tools and implements.
24. Give an account of dry flower arrangement.
25. What are the main parts of a scientific paper?
26. Write notes on different types of experimental designs.
27. What are the graphical representation methods of data in research?
28. Briefly describe four vegetative propagation methods.
29. Write down on NPK and its importance to crops.
30. Describe mutation breeding.
31. Explain the objectives of plant breeding.

(6 × 4 = 24 Marks)

SECTION – D

*Long essay type: Answer any **Two** questions.*

32. Describe the methods involved in making a bonsai. Also add a note on different styles of bonsai.
33. Explain how to construct a garden by applying the landscaping principles.
34. How to write and publish a scientific paper?
35. Explain various selection methods adopted in plant breeding.

(2 × 15 = 30 Marks)