

Reg. No. :

Name :

Sixth Semester B.Sc. Degree Examination, April 2023

First Degree Programme under CBCSS

Botany

Core Course X

**BO 1643 : HORTICULTURE PLANT BREEDING AND RESEARCH
METHODOLOGY**

(2019 Admission onwards)

Time : 3 Hours

Max. Marks : 80

1. Answer **all** questions in **one** or **two** sentences. **Each** question carries **1** mark.
1. Define olericulture.
 2. What is a farmyard manure?
 3. What is an air layering?
 4. What is rockery?
 5. Name any two edge plants.
 6. What is interspecific hybridization?
 7. List any two achievements of coconut.
 8. What is inbreeding depression?

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9. What do you mean by $p < 0.05$?
10. List any two methods of diagrammatic representation of data.

(10 × 1 = 10 Marks)

II. Answer any **eight** of the following. **Each** question carries **2** marks.

11. Enlist applications of spade and tillers.
12. What is a vermicompost?
13. What is NPK? Give two examples.
14. What is a floral bed?
15. What is indoor gardening?
16. List the advantages of plastic containers.
17. What is a male sterility? Mention its significance.
18. What is a plat introduction?
19. List the objectives of NBPGR.
20. Mention any two objectives of plant breeding.
21. Why replication is necessary for a scientific experiment?
22. What is qualitative research?

(8 × 2 = 16 Marks)

III. Answer any **six** of the following. **Each** question carries **4** marks.

23. List the characteristics of any two potting media.
24. What is drip irrigation? Mention its advantages and disadvantages.
25. With diagrams explain the procedure of approach grafting.
26. What is conservatory? Mention its advantages.

27. What is a bonsai? How does it prepare?
28. What is polyploidy breeding? Mention its achievements.
29. Write a brief account on mass selection.
30. What is IMRD of a research paper? Expand and explain.
31. What is a bibliography? Add a note any one type of style of citing references.

(6 × 4 = 24 Marks)

IV. Write essay on **any two** of the following. **Each** question carries **15** marks.

32. Write a detailed account on features of different types of soil.
33. Write a short note on the procedure for completely randomized blocks.
34. Compare free style, shallow and mass arrangement of flowers.
35. Discuss the different types of breeding techniques of wheat. Add a note on its achievements.

(2 × 15 = 30 Marks)