

**B. Sc. DEGREE END SEMESTER EXAMINATION : MARCH 2023****SEMESTER 6 : BOTANY****COURSE : 19U6CRBOT12 : HORTICULTURE, NURSERY MANAGEMENT, EMBRYOLOGY AND REPRODUCTIVE BIOLOGY***(For Regular - 2020 Admission and Supplementary - 2019 Admission)*

Time : Three Hours

Max. Marks: 60

**PART A****Answer All (1 mark each)**

1. Name a tool used for trimming hedges and topiary.
2. Define seed dormancy.
3. What is a rockery?
4. What is meant by hydrophily?
5. Define micropropagation.
6. Define biological control.
7. Define post-harvest management.
8. Define floral foam.

**(1 x 8 = 8)****PART B****Answer any 6 (2 marks each)**

9. Write a note on seed propagation.
10. Explain lawn preparation.
11. Explain the structure of pollen grain.
12. Differentiate malacophily and elephophily.
13. What are the pollination syndromes observed in an anemophilous flower?
14. What is meant by hemiclinal reproduction?
15. How do you make potting mixture?
16. Comment on PSB.
17. Differentiate between MAP and EMAP.
18. Differentiate between western and eastern flower arrangement.

**(2 x 6 = 12)****PART C****Answer any 4 (5 marks each)**

19. Explain the advantages and disadvantages of vegetative propagation.
20. Write an account on Orchid cultivation.
21. Explain the structure of an anther.
22. Describe the structure of a mature embryo sac with the help of a labelled diagram.
23. Differentiate between sprinkling and drip irrigation system.
24. Explain the different kinds of organic manure.

**(5 x 4 = 20)**

**PART D**

**Answer any 2 (10 marks each)**

25. Describe the natural methods of vegetative propagation.
26. Compare microsporogenesis and megasporogenesis.
27. Explain the different irrigation methods.
28. Define floriculture. Explain the problems and prospects of Floriculture in Kerala.

**(10 x 2 = 20)**