

Reg. No .....

Name .....

24U659

**B. Sc. DEGREE END SEMESTER EXAMINATION - MARCH 2024**

**SEMESTER 6 - BOTANY**

**COURSE : 19U6CRBOT12 - HORTICULTURE, NURSERY MANAGEMENT, EMBRYOLOGY AND REPRODUCTIVE BIOLOGY**

*(For Regular 2021 Admission and Supplementary 2020/2019 Admissions)*

Time : Three Hours

Max. Marks: 60

**PART A**

**Answer All (1 mark each)**

1. What is meant by Parthenogenesis?
2. Define totipotency.
3. Define seed viability.
4. What is meant by polyembryony?
5. Define truck gardening.
6. What is a rockery?
7. Expand PGPR.
8. What is the use of Asparagus in floriculture trade?

**(1 x 8 = 8)**

**PART B**

**Answer any 6 (2 marks each)**

9. Write a note on Ikebana.
10. What is meant by psychophily? Give an example.
11. What is vermiwash? Narrate its uses
12. Differentiate between drives and paths.
13. How do you make potting mixture?
14. Differentiate between malacophily and elephophily.
15. Differentiate between secretory and amoeboid tapetum.
16. Comment on endosperm and its function.
17. Write a note on seed testing.
18. Write a short note on shrink packaging.

**(2 x 6 = 12)**

**PART C**

**Answer any 4 (5 marks each)**

19. Explain the advantages and disadvantages of vegetative propagation.
20. Explain the structure of a mature anther with labeled diagram.
21. Explain megasporogenesis.
22. Explain the preparation and advantage of vermicomposting.
23. Write an account on Orchid cultivation.
24. Differentiate between sprinkling and drip irrigation system.

**(5 x 4 = 20)**

**PART D**

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

25. Explain the different types of budding and grafting.
26. Explain the development of ovule in angiosperm and describe a mature embryo sac.
27. Explain the various plant growth structures.
28. Define floriculture. Explain the problems and prospects of Floriculture in Kerala.

**(10 x 2 = 20)**