

**B. A./B. Sc./B. COM. DEGREE END SEMESTER EXAMINATION – OCTO. 2020: JANUARY 2021****SEMESTER – 5: BOTANY (OPEN COURSE)****COURSE: 15U5OCBOT1 – AGRIBASED MICRO ENTERPRISES**

*(Common for Regular 2018 admission and Improvement 2017/ Supplementary 2017/2016/2015 admissions)*

Time: Three Hours

Max. Marks: 75

**PART A****I. Answer ALL questions; each question carries 1 mark.**

1. Who is known as the father of green revolution?
2. Name the alkaloid present in Tobacco plant?
3. Name the main groups of micro organisms present in soil.
4. What are the components of seed?
5. Name the gardening art which was originated in Japan?
6. Write the Botanical name of paddy straw mushroom?
7. What is spawn?
8. What is agar-agar?
9. What is HEPA?
10. Give the botanical name of a fern commonly using in flower arrangement. (1 x 10 = 10)

**PART B****II. Answer ANY EIGHT questions; each question carries 2 marks.**

11. Write an account on oil cakes.
12. What is *Trichoderma*? Explain its uses.
13. Explain the use of trowel?
14. What is humus?
15. Explain the value of ferns in flower arrangement.
16. Explain the medicinal value of mushrooms.
17. Describe the disorders caused by poisonous mushroom consumption.
18. Explain the advantages of tissue culture over conventional propagation methods.
19. What is totipotency? Explain
20. Name various self employment schemes under Govt. of Kerala. (2 x 8 = 16)

**PART C****III. Answer ANY FIVE questions; each question carries 5 marks.**

21. Explain the requirements for sustainable agriculture and food security.
22. Explain various plant growing structures.
23. Describe the techniques used in bonsai culture of shrubs and trees.
24. Write a brief account on dry flower arrangements.

- 25. Briefly explain the life cycle of mushrooms.
- 26. Differentiate between organogenic and somatogenic plant regeneration.
- 27. Describe the role of self employment in women empowerment. (5 x 5 = 25)

**PART D**

**IV. Answer ANY TWO questions; each question carries 12 marks.**

- 28. Write a detailed account on the infrastructure of a tissue culture laboratory.
- 29. Describe the post-harvest processing of mushrooms with suitable methods.
- 30. Describe the components of ornamental garden. (12 x 2 = 24)

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