



21101645

QP CODE: 21101645

Reg No :

Name :

**UNDER GRADUATE (CBCS) SPECIAL SUPPLEMENTARY EXAMINATIONS, JULY
2021**

Fifth Semester

(Offered by the Board of Studies in Botany)

OPEN COURSE - BO5OPT01 - AGRI-BASED MICROENTERPRISES

2018 Admission Only

D608595E

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. How can you compost materials rich in Lignin content?
2. List the advantages of using biofertilizers over conventional fertilizers.
3. Name the parts of an embryo.
4. What is tongue grafting?
5. What is ground layering?
6. Name any two hormones used for root initiation.
7. What is lactic acid fermentation?
8. Define TDT.
9. Name two substrates used for spawn production.
10. What is casing?
11. How virus free plants can be produced through tissue culture?
12. What are Pro embryogenic determined cells?

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*





13. Write note on the most commonly used 'N', 'P' and 'K' inorganic fertilizers.
 14. Write notes on Plant incorporated protectants.
 15. Write notes on commonly used tillage tools, illustrate with diagram.
 16. List the methods of vegetative propagation. what are its advantages.
 17. Discuss the importance of kitchen garden.
 18. What are the different strategies of food preservation?
 19. Describe the cultivation technique of Milky mushrooms using paddy straw as substrate.
 20. Briefly explain: (a) explant inoculation and incubation (b) Hardening of micropropagules.
 21. Explain the process of hardening, package and transport of tissue cultured plants.
- (6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. What are Organic Manures? Mention the advantages and disadvantages of using Organic Manure.
 23. Describe the natural methods of vegetative propagation.
 24. Explain the structure and lifecycle of a mushroom.
 25. Define totipotency. Explain somatic embryogenesis with its major applications.
- (2×15=30)

