

Roll No.

Total Pages : 3

325404

May 2023

**B.Sc. (Life Science) IV SEMESTER
Mushroom Culture Technology (SEC 04)**

Time : 3 Hours]

[Max. Marks : 75

Instructions :

1. *It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
2. *Answer any four questions from Part-B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*

PART-A

1. (a) What are primary and secondary metabolites of mushrooms ? (1.5)
- (b) Explain spawning. (1.5)
- (c) What is casing. (1.5)
- (d) Explain the structure of mushroom with the help of figure. (1.5)
- (e) Different media for raising pure culture of mushroom. (1.5)
- (f) What is spore print and spore transfer. (1.5)

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- (g) Explain freeze drying technique along with its utility. (1.5)
- (h) Name any *three* edible and *three* poisonous mushrooms. (1.5)
- (i) Explain Life Cycle of basidiomycetes. (1.5)
- (f) Name any 4 mushroom research stations located in India. (1.5)

PART-B

2. (a) Discuss entrepreneurship with reference to mushroom production. (10)
- (b) Elucidate the role of gamma radiations in mushroom industries. (5)
3. (a) Discuss the procedure of mushroom canning. (5)
- (b) Explain National and International Scenario of Mushroom Production. (10)
4. Explain the general technique for cultivation of button mushroom in India. (15)
5. (a) Throw light on the historical background of mushroom cultivation. (5)
- (b) Name the diseases that impact the cultivation of mushrooms and how you can manage these pathogens. (10)

6. (a) Explain the variety of value added products obtained from mushroom. (10)
- (b) Enumerate the medical benefits of consuming mushrooms. (5)
7. Define spoilage and preservation. What are the different methods of preserving mushrooms explain with examples? (15)
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