

Total No. of Questions : 9]
(2034)

Roll No.

[Total No. of Printed Pages : 4

UG (CBCS) IIIrd Year Annual Examination
3012

B.Sc. BOTANY
(Mushroom Cultivation Technology)
(SEC-II)

Paper : BOTA 307

Time : 3 Hours]

[Maximum Marks : 70

Note :- Attempt *five* questions in all. Q. No. 1 (Part-A) is compulsory. Attempt *one* question each from Parts B, C, D and E. Attempt all parts of a question together. Draw neat and clean, well labelled diagrams wherever required.

Part-A

(Compulsory Question)

1. (A) (i) What is Casing ?
- (ii) Which edible Mushroom is most preferred in India ?
- (iii) Write botanical names of any *two* wild edible Mushrooms found in Himachal Pradesh.

- (iv) Write full form of PDA.
- (v) Autoclave is used for sterilization.
(True/False)
- (vi) Sugarcane Trash is used as bed for Mushroom cultivation.
(True/False)
- (vii) Poisonous Mushrooms are known as
- (viii) Preservation of Mushroom in sealed containers is known as
- (ix) The fruiting body of Mushroom consists of :
(a) Stipe
(b) Pileus
(c) Pedicel
(d) Both (a) and (b)
- (x) Inky Caps in Mushroom beds refers to the presence of :
(a) *Verticillium fungicola*
(b) *Trichoderma viride*
(c) *Sporendonema purpurascens*
(d) *Coprinus lagopus*

1×10=10

(B) Write notes on the following :

(i) Maintenance and Conservation of pure culture

(ii) Nutraceuticals

2×2=4

Part-B

2. (a) Describe the nutritional and medicinal value of Mushroom.
- (b) Describe the structure of a typical Mushroom or basidiocarp. 7,7
3. (a) Define Mushroom. Describe methods of identification of poisonous and edible Mushroom.
- (b) What are the advantages of Mushroom cultivation and its future perspectives in India ? 7,7

Part-C

4. (a) Write a detailed note on sterilization techniques used in Mushroom cultivation technology.
- (b) Write about infrastructural requirements and important equipments used during Mushroom cultivation. 7,7
5. (a) Define a spawn. Describe the various types of spawn and methods of spawn production.
- (b) Describe composting technology in Mushroom production. 7,7

Part-D

6. (a) How is Mushroom bed prepared ? Write various factors affecting the Mushroom bed preparation.
- (b) Write a detailed note on the cultivation of Oyster Mushroom. 7,7
7. (a) Describe cultivation practices of *Agaricus bisporus*.
- (b) Write a detailed note on 'Delicious Recipes of Mushrooms'. 7,7

Part-E

8. Why Mushroom storage is required ? Write about Short-term storage and Long-term storage of Mushrooms. 14
9. (a) Write a detailed note on Fungal diseases (Name of disease, Causal organism, Symptoms and control measures) of white button Mushroom.
- (b) What is a Pest ? Describe 'Pests of Mushrooms'. 7,7