

Roll No. _____

[Total No. of Pages : 2

PGIVS 1580 A-18
M.Sc. IVth Semester Examination
BOTANY
(Applied Mycology)
Paper : SCT-4.3.1
(New)

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

Answer any FIVE questions. Question No. 1 is compulsory.

1. Answer in **one** or **two** sentences. **(10×2=20)**
- i) Cryopreservation.
 - ii) Freeze-drying
 - iii) Spawn
 - iv) Pin head
 - v) Column culture of mushroom.
 - vi) Fumonisin
 - vii) *Monascus purpureus*
 - viii) Mushroom tyrosinase
 - ix) *Rocella tinctoria*
 - x) Lovastatin.
2. Write an account on different methods followed in maintaining fungal cultures. **(15)**
3. Write an account on wild edible mushrooms. **(15)**
4. Discuss the importance of non-industrial fungal metabolites. **(15)**
5. Write an account on single cell protein production from fungi. **(15)**

[Contd....

6. Write short note on any **THREE** of the following.

(3×5=15)

- a) Batch culture
 - b) Strain improvement in mushroom
 - c) Lichen products
 - d) Fungal enzymes.
-

PGIVS 1581 A-18
M.Sc. IVth Semester Examination
BOTANY
(Plant Pathology and Plant Protection)
Paper : HCT-4.1
(New)

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

Answer any **FIVE** questions. Question No. 1 is compulsory.

1. Answer in one or two sentences. (10×2=20)
 - i) Hypersensitive Reaction.
 - ii) Disease Triangle
 - iii) Inoculum
 - iv) Etiology
 - v) Pathogenesis
 - vi) Epidemiology
 - vii) VAM fungi
 - viii) Radiation treatment
 - ix) Crop rotation
 - x) Antagonism.
2. Write an account on History of plant pathology (15)
3. Explain in detail the Role of pathogen and environment in disease development. (15)
4. Give an account on plant-diseases of major crops of Gulbarga region caused by fungi. (15)
5. Describe in detail the control of Post harvest diseases in crop plants. (15)

6. Write short notes on any three of the following.

(3×5=15)

- a) Polygene hypothesis
 - b) Monitoring of airborne inoculum
 - c) Estimation of yield loss
 - d) Plant quarantine regulation.
-