

B.Sc. (CBCS Pattern) Semester-VI
012C - Botany Paper-I - Mycology and Plant Pathology-I

P. Pages : 2

Time : Three Hours



GUG/S/25/13329

Max. Marks : 50

- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Draw well labelled diagrams wherever necessary.

1. Write on:

- | | |
|---|----------|
| a) Mycological institutes in India. – IARI. | 5 |
| b) Classification of Fungi (G.C. Ainsworth). (outline only) | 5 |

OR

Write short notes on:

- | | |
|---|-----------|
| c) Objectives of Mycology. | 2½ |
| d) General characteristics of Ascomycotina. | 2½ |
| e) General characteristics of zygomycotina. | 2½ |
| f) General characters of fungi. | 2½ |

2. Write on:

- | | |
|---|----------|
| a) Chemical composition and functions of cell wall. | 5 |
| b) Types of fungal spores. | 5 |

OR

Write short notes on:

- | | |
|--|-----------|
| c) General characteristics of fungal spores. | 2½ |
| d) Heterokaryosis. | 2½ |
| e) Homothallism | 2½ |
| f) Heterothallism. | 2½ |

3. Write on:

- | | |
|--------------------------------------|----------|
| a) Classification of plant diseases. | 5 |
| b) Koch's Postulates. | 5 |

OR

Write short notes on:

- | | |
|-----------------------------------|----|
| c) Objectives of plant pathology. | 2½ |
| d) Sterilisation | 2½ |
| e) Pure culture (Purification). | 2½ |
| f) Field observations. | 2½ |

4. Write on:

- | | |
|----------------------------------|---|
| a) Enzymes in Plant diseases. | 5 |
| b) Defense structures in plants. | 5 |

OR

Write short notes on:

- | | |
|---|----|
| c) Vivotoxin | 2½ |
| d) Effect of Temperature on Plant diseases. | 2½ |
| e) Biological control of Plant diseases. | 2½ |
| f) Uses of resistant varieties. | 2½ |

5. Write on the following in two or three line only **any ten** (Diagram not necessary) **10**

- | | |
|------------------------|---------------------|
| a) Mycology. | b) VINSTROM. |
| c) Father of Mycology. | d) Sporangiphore. |
| e) Motility. | f) Mycelium |
| g) Canker | h) Rust. |
| i) Inoculation | j) Plant quarantine |
| k) Pathotoxin. | l) Symptoms. |
