

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

P. Pages : 2

Time : Three Hours



GUG/W/24/13329

Max. Marks : 50

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

1. Write notes on:
- a) Classification of fungi by G. C. Ainsworth (1973). 5
 - b) Mycological Institute in India. 5

OR

Write short notes on:

- c) Characteristics of Ascomycotina. 2½
- d) General characteristics of Fungi. 2½
- e) Objectives of Mycology. 2½
- f) Deuteromycotina (General Characteristics). 2½

2. Write notes on:
- a) Chemical composition and function of fungal cell wall. 5
 - b) Heterothallism. 5

OR

Write short notes on:

- c) Fungal spores based on spore producing structure. 2½
- d) Characteristics of fungal spores. 2½
- e) Heterokaryopsis 2½
- f) Homothallism 2½

3. Write notes on:
- a) Koch's postulates 5
 - b) Culture media preparation 5

OR

Write short notes on:

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| c) Parasitic and non-parasitic diseases. | 2½ |
| d) Objectives of plant pathology. | 2½ |
| e) Sterilization. | 2½ |
| f) Field observation | 2½ |

4. Write notes on:

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| a) Enzymes in plant diseases. | 5 |
| b) Biological control of plant diseases. | 5 |

OR

Write short notes on:

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| c) Toxins in plant diseases. | 2½ |
| d) Plant quarantine | 2½ |
| e) Resistant varieties | 2½ |
| f) Chemical control of plant diseases. | 2½ |

5. Write **any ten** questions in one or two lines only (diagrams are not necessary) **10**

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|----------------------------|--------------------|
| a) Coenocytic mycelium | b) Saprophyte |
| c) Basidiospores | d) Zoospores |
| e) Sporangiphore | f) Chlamydospores |
| g) Pathogen | h) Isolation |
| i) Slant | j) Symptom |
| k) Hypersensitive reaction | l) Control measure |
