

**Bachelor of Science (B.Sc.) Semester—I (C.B.S.) Examination
(New & Old Course)**

**BOTANY
(Fungi, Lichen, Plant-Pathology and Bryophyta)
Compulsory Paper—2
(New Course)**

Time : Three Hours]

[Maximum Marks : 50

N.B. :— (1) **ALL** questions are compulsory and carry equal marks.

(2) Illustrate your answers with suitable examples and diagrams wherever necessary.

1. Write notes on :—

- | | |
|---|---|
| (a) General characteristics of Fungi | 5 |
| (b) Sexual reproduction in <i>Mucor</i> . | 5 |

OR

Write short notes on :—

- | | |
|---|----|
| (c) Asexual reproduction in <i>Albugo</i> | 2½ |
| (d) Sex organs in <i>Albugo</i> | 2½ |
| (e) Harmful aspects of Fungi | 2½ |
| (f) Sporangium in <i>Mucor</i> . | 2½ |

2. Write notes on :—

- | | |
|---|---|
| (a) Asexual reproduction in <i>Cercospora</i> | 5 |
| (b) V.S. Apothecium of Lichen. | 5 |

OR

Write short notes on :—

- | | |
|---------------------------------------|----|
| (c) Uredial stage in <i>Puccinia</i> | 2½ |
| (d) Economic importance of Lichens | 2½ |
| (e) Fruticose Lichen | 2½ |
| (f) Telial stage in <i>Puccinia</i> . | 2½ |

3. Write notes on :—

- | | |
|---|---|
| (a) Citrus Canker | 5 |
| (b) General characters of Anthocerotopsida and Bryopsida. | 5 |

OR

Write short notes on :—

- (c) Classification of Bryophyte (Outline only) 2½
- (d) Red rot of sugarcane 2½
- (e) General characters of Hepaticopsida 2½
- (f) Alternation of generation in Bryophytes. 2½

4. Write notes on :—

- (a) L.S. Sporophyte of *Anthoceros* 5
- (b) Sex organs in *Riccia*. 5

OR

Write short notes on :—

- (c) Archegonia in *Anthoceros* 2½
- (d) L.S. Sporophyte of *Funaria* (Diagram only) 2½
- (e) V.S. Thallus of *Riccia* 2½
- (f) Antheridial branch of *Funaria*. 2½

5. Write in 2 or 3 lines only (any **TEN**). Diagrams are not necessary :—

- (a) White rust
- (b) Haustoria
- (c) Saprophytic fungi
- (d) Crustose lichen
- (e) Rust disease
- (f) Isidia
- (g) Symptoms
- (h) Leaf curl of Papaya
- (i) Bordeaux mixture
- (j) Pseudoelaters
- (k) Operculum
- (l) Calyptra. 1×10

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[Maximum Marks : 50

N.B. :— (1) **ALL** questions are compulsory and carry equal marks.

(2) Illustrate your answers with suitable examples and diagrams wherever necessary.

1. Write notes on :—

- | | |
|--|---|
| (a) Sexual reproduction in <i>Albugo</i> | 5 |
| (b) Economic importance of Fungi. | 5 |

OR

Write short notes on :—

- | | |
|--|----------|
| (c) Asexual reproduction in <i>Albugo</i> | |
| (d) Asexual reproduction in <i>Mucor</i> | |
| (e) Alexopoulos classification of Fungi (outline only) | |
| (f) Zygosporangium in <i>Mucor</i> . | 2.5×4=10 |

2. Write notes on :—

- | | |
|--|---|
| (a) V.S. Apothecium of Lichen | 5 |
| (b) Pycnidial and Aecidial stages of <i>Puccinia</i> . | 5 |

OR

Write short notes on :—

- | | |
|---|----------|
| (c) Uredial stage in <i>Puccinia</i> | |
| (d) Asexual reproduction in <i>Cercospora</i> | |
| (e) Telial stage in <i>Puccinia</i> | |
| (f) Economic importance in Lichen. | 2.5×4=10 |

3. Write notes on :—

- | | |
|---|---|
| (a) General characters of Hepaticopsida and Bryopsida | 5 |
| (b) Red rot of Sugarcane. | 5 |

OR

Write short notes on :—

- (c) Leaf curl of Papaya
- (d) Classification of Bryophyta
- (e) Citrus Canker
- (f) Economic importance of Bryophytes.

2.5×4=10

4. Write notes on :—

- (a) L.S. Sporophyte of *Marchantia*
- (b) L.S. Sporophyte of *Anthoceros*.

5

5

OR

Write short notes on :—

- (c) V.T.S. of *Marchantia* thallus.
- (d) Antheridium of *Anthoceros*
- (e) Male branch of *Funaria*
- (f) L.S. Sporophyte of *Funaria* (Diagram only).

2.5×4=10

5. Write in 2 or 3 lines only (any **TEN**). Diagrams are not necessary :—

- (a) Haustoria
- (b) White rust
- (c) Saprophytic fungi
- (d) Soredia
- (e) Basidiospore
- (f) Tikka disease
- (g) Pathogen
- (h) Anthocerotopsida
- (i) Host
- (j) Operculum
- (k) Calyptra
- (l) Pseudoelaters.

1×10