

Bachelor of Science (B.Sc.) Semester—I Examination

BOTANY

(Fungi, Lichen Plant–Pathology and Bryophyta)

Optional Paper—2

Time : Three Hours]

[Maximum Marks : 50

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

(2) Draw well labelled diagrams and write examples wherever necessary.

1. Write on :

- (a) Asexual reproduction in *Albugo*. 5
- (b) Economic importance of fungi. 5

OR

Write short notes on :

- (c) General characteristics of fungi.
- (d) Sexual reproduction in *Albugo*.
- (e) Classification of fungi (outline only).
- (f) Sexual reproduction in *Mucor*. 2.5×4

2. Write on :

- (a) Aecidial and pycnidial stage in *Puccinia*. 5
- (b) V.t.s. thallus of lichen. 5

OR

Write short notes on :

- (c) Foliose lichen
- (d) Telial stage in *Puccinia*
- (e) V.s. apothecium of lichen (diagram only).
- (f) Asexual reproduction in *Cercospora*. 2.5×4

3. Write on :

- (a) Classification of Bryophyta 5
- (b) Red rot of sugarcane. 5

OR

Write short notes on :

- (c) Leaf curl of Papaya
- (d) Citrus canker
- (e) Alternation of generations in Bryophyta
- (f) Economic importance of Bryophyta. 2.5×4

4. Write on :
- (a) V.t.s. thallus of *Anthoceros* 5
 - (b) L.S. sporophyte of *Funaria*. 5

OR

Write short notes on :

- (c) L.S. male gametophore of *Funaria*
 - (d) V.t.s. thallus of *Riccia* (diagram only)
 - (e) Antheridium in *Riccia*
 - (f) L.S. sporophyte of *Anthoceros* (diagram only). 2.5×4
5. Write in **two** or **three** lines only (any **TEN**). Diagrams are not necessary :
- (a) Saprophyte
 - (b) Haustoria
 - (c) Columella
 - (d) Epibasidium
 - (e) Isidia
 - (f) Genuiculate
 - (g) Host
 - (h) Plant pathology
 - (i) Pathogen
 - (j) Involucre
 - (k) Rhizoids
 - (l) Pseudoelater. 10