

3 (Sem-1) BOT M 1

Bijni College Library
P.O. Bijni, Dist. Chirang
(B.T.A.D) Assam

2016

BOTANY

(Major)

Paper : 1.1

Full Marks : 60

Time : 3 hours

The figures in the margin indicate full marks for the questions

1. Fill in the blanks with appropriate word(s) :

1×7=7

- (a) Leaf-like structure of multicellular alga is called _____.
- (b) In *Coleochaete*, the oogonium bears a protuberance called _____.
- (c) Algin, a thickener, used in ice cream and cake decoration is extracted from _____ algae.
- (d) _____ is the reserved food material found in Cyanophyceae.

(2)

- (e) Function of haustoria in fungi is ____.
- (f) Crozier formation is observed in ____.
- (g) Reserved food material in plants is ____.

2. Define the following terms : 2×4=8

- (a) Teleomorph
- (b) Anisogamy
- (c) Phylogeny
- (d) Symbiosis

3. Write briefly on any *three* of the following : 5×3=15

- (a) Haplodiplontic life cycle
- (b) Degeneration of sex in fungi
- (c) Algal bloom
- (d) Lichen
- (e) Lithotrophs

4. Answer any *three* of the following : 10×3=30

- (a) Discuss the utility of pigments and reserved food materials in the classification of algae. 10

(3)

- (b) Explain the thallus structure and life cycle of *Volvox* with suitable diagrams. $4+6=10$
- (c) Write the systematic position and economic importance of *Saccharomyces*. Give a diagrammatic representation of the life cycle of *Saccharomyces* with proper labelling. $2+3+5=10$
- (d) Give an outline of different modes of nutrition found in plant kingdom with suitable examples. 10
- (e) What are the distinguishing features of Cyanophyceae? Give an idea about the ecological and agricultural importance of blue-green algae. $5+5=10$
