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3 (Sem-1) BOT M1

2020

(Held in 2021)

BOTANY

(Major)

Paper : 1·1

(Plant Kingdom, Algae and Fungi)

Full Marks : 60

Time : Three 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) _____ is the reserved food material found in Cyanophyceae.

(b) _____ is an example of Holocarpic fungi.

(c) Haplo-diplobiontic life cycle is found in _____ .

Contd.

- (d) The wanderplasm is found in _____ .
- (e) The zoospore of *Vaucheria* is called _____ .
- (f) The fruiting body of *Penicillium* is called _____ .
- (g) Members of Bacillariophyceae are commonly called _____ .

2. Define the following terms : 2×4=8

- (a) Pyrenoids
- (b) Mycorrhiza
- (c) Plakea stage
- (d) Haustoria.

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

- (a) Range of thallus structure in Algae.
- (b) Describe the criteria of plant classification.
- (c) Fungi as food and medicine.
- (d) Mode of nutrition in plants.
- (e) Carposporophyte of *Polysiphonia*.

4. Answer the following : 10×3=30

- (a) Describe briefly a comprehensive account of the origin and evolution of sex in Algae. 10

Or

Give a brief account of the life history of *Chara* with the help of labelled diagram. 10

- (b) Write the diagnostic features of Basidiomycetes. Differentiate between Ascospores and Basidiospores.

6+4=10

Or

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

- (c) Write the characteristic features, reproduction and economic importance of Bacillariophyceae. 3+4+3=10

Or

Describe briefly about the life history of *Mucor* with the help of neat and labelled diagram. 10