

**B.Sc. BOTANY
FIRST SEMESTER
PHYCOLOGY AND LICHEN
BSB-102 (IDMn)**

**SET
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1hr. 30 mins.

Full Marks: 35

Time: 15 mins.

(Objective)

Marks: 10

Choose the correct answer from the following:

1×10=10

- Algae are the primary producers of:
 - Nitrogen
 - Oxygen
 - Sulphur
 - None of the above
- The thallus organization of algae is/are:
 - Diverse
 - Limited to only Filaments
 - Limited to only single cell
 - Limited to only branched Filament
- Specialized, larger and thickened two layered vegetative cells is called:
 - Polar nodule
 - Endospores
 - Heterocysts
 - Isogamy
- Most of the unicellular and filamentous form of Chlorophyceae shows:
 - Haplontic life cycle
 - Diplontic life cycle
 - All of the above
 - None of the above
- Phaeophyceae are commonly known as:
 - Brown algae
 - Red algae
 - Golden Brown algae
 - None of the above
- Which algae can be used for waste water treatment?
 - Spirogyra sp.
 - Microspora sp.
 - Klebosormedium sp.
 - All of the above
- Which algae contain high amount of protein?
 - Spirulina
 - Chlorella
 - Dinobryon
 - None of the above
- Powdery appearance is found in:
 - Leprose lichen
 - Foliose lichen
 - Fruticose lichen
 - Filamentous lichen
- Attachment of foliose lichens are called:
 - Rhizines
 - Holdfast
 - Hepters
 - Hypothallus

10. *Labaria pulmonaria* is used in:

- a. Drug industry
- c. Perfumes

- b. Food industry
- d. Dyes

(Descriptive)

Time : 1 hr. 15 mins.

Marks : 25

[Answer question no.1 & any two (2) from the rest]

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| 1. Describe the general characteristics of Algae citing some examples. | 5 |
| 2. Discuss briefly the range of thallus structure in algae. | 10 |
| 3. Discuss the life history of Chlorophyceae with suitable diagram. | 10 |
| 4. Elaborate role of algae in soil fertility. | 10 |
| 5. Discuss Economic importance of Lichen in detail. | 10 |

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