

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

**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*

1. Red algae belongs to which group?  
a. Chlorophyceae  
b. Bailariophyceae  
c. Cyanophyceae  
d. Rhodophyceae
2. Cyanophycean starch is found in:  
a. Blue green algae  
b. Brown algae  
c. Green algae  
d. Red algae
3. Specialized, larger and thickened two layered vegetative cells is called:  
a. Polar nodule  
b. Endospores  
c. Heterocysts  
d. Isogamy
4. The valve of diatom is known as:  
a. Frustules  
b. Raphe  
c. Striations  
d. Hypotheca
5. In Isogamy, both the gametes are:  
a. Male gamete is larger than female gamete  
b. Both the gamete are alike  
c. Male gamete is motile  
d. Female gamete is non motile
6. Which algae contain high amount of oil?  
a. Spirogyra sp  
b. Batrachospermum sp  
c. Chlorella sp.  
d. NAvicula sp.
7. Which algae contain high amount of protein?  
a. Spirulina  
b. Chlorella  
c. Dinobryon  
d. None of the above
8. This type of lichen thalli are well branched, erect, pendulous bushy structure, shrubby, twig like appearance:  
a. Crustose lichen  
b. Foliose lichen  
c. Fructicose lichen  
d. Filamentous lichen
9. Attachment of foliose lichens are called:  
a. Rhizines  
b. Holdfast  
c. Hepters  
d. Hypothallus

10. When algal filaments and fungal hyphae grow together in a chain like system and break into clumps known as:
- a. Phyllidia
  - b. Fragmentation
  - c. Schizia
  - d. Hormocysts

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( Descriptive )

Time : 1 hr. 15 mins.

Marks : 25

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

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|-----------------------------------------------------------------------------|----|
| 1. Write Fritsch classification of Algae in detail.                         | 5  |
| 2. Discuss briefly the range of thallus structure in algae.                 | 10 |
| 3. Discuss the life history of Rhodophyceae with suitable diagram.          | 10 |
| 4. Elaborate role of algae in Environment and Industry.                     | 10 |
| 5. Discuss different types of reproduction of Lichen with suitable diagram. | 10 |

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