

M.Sc. BOTANY
FIRST SEMESTER
PHYCOLOGY AND LICHEN
MSB-103

**SET
B**

[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

- Agar is derived from which algae?
a. Gracillaria
b. Spirogyra
c. Dunaliella
d. Nostoc
- Which algae has high protein content?
a. Microspora
b. Batrachospermum
c. Oedogonium
d. Spirulina
- Which of the following is not an attachment organ in Lichen?
a. Hapters
b. Rhizines
c. Hypothallus
d. Spermatium
- Lepraria incana* is an example of:
a. Foliose lichen
b. Fructicose lichen
c. Leprose lichen
d. Crustose lichen
- The fungal component in lichen is known as:
a. Mycobiont
b. Phycobiont
c. Cyanobiont
d. Fungobiont
- Heterocyst are found in
a. Nostoc
b. Anabaena
c. Both a and b
d. Aspergillus
- Cell wall of Chrysophyceae:
a. Cellulose
b. Non cellulose
c. Pectine
d. Non pectine
- In Rhodophyceae the chief biloproteins is:
a. C-phycoyanin
b. R-phycoerythrin
c. C-allophycoyanin
d. R- phycoyanin
- Pennate diatoms is:
a. Radially symmetric
b. Bilaterally symmetric
c. Both a and b
d. None of the above

10. Transverse meiotic division occur in:
- a. Pleurilocular sporangia
 - b. Unilocular sporangia
 - c. Trilocular sporangia
 - d. Both in a and c

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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. Discuss the reproduction in Phaeophyceae. | 5 |
| 2. Elaborate Criteria for algal classification. | 10 |
| 3. Discuss Range of thallus structure in algae. | 10 |
| 4. Name few Oil yielding algal species. Write a note on Industrial application of Algae. | 2+8=10 |
| 5. Discuss the different attachment organs and asexual mode of reproduction in Lichen. | 5+5=10 |

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