

M.Sc. BOTANY
FIRST SEMESTER [SPECIAL REPEAT]
PHYCOLOGY AND LICHEN
MSB-103

**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. Heterocyst are found in
 - a. Nostoc
 - b. Anabaena
 - c. Both a and b
 - d. Aspergillus
2. Cell wall of Chrysophyceae:
 - a. Cellulose
 - b. Non cellulose
 - c. Pectine
 - d. Non pectine
3. In Rhodophyceae the chief biloproteins is:
 - a. C-phycoyanin
 - b. R-phycoerythrin
 - c. C-allophycoyanin
 - d. R- phycoyanin
4. Pennate diatoms is:
 - a. Radially symmetric
 - b. Bilaterally symmetric
 - c. Both a and b
 - d. None of the above
5. Transverse meiotic division occur in:
 - a. Pleurilocular sporangia
 - b. Unilocular sporangia
 - c. Trilocular sporangia
 - d. Both in a and c
6. Agar is derived from which algae?
 - a. Gracillaria
 - b. Spirogyra
 - c. Dunaliella
 - d. Nostoc
7. Which algae has high protein content?
 - a. Microspora
 - b. Batrachospermum
 - c. Oedogonium
 - d. Spirulina
8. Which of the following is not an attachment organ in Lichen?
 - a. Hapters
 - b. Rhizines
 - c. Hypothallus
 - d. Spermatium
9. *Lepraria incana* is an example of:
 - a. Foliose lichen
 - b. Fruticose lichen
 - c. Leprose lichen
 - d. Crustose lichen

10. The fungal component in lichen is known as:
- a. Mycobiont
 - b. Phycobiont
 - c. Cyanobiont
 - d. Fungobiont

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

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