

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

**SET
B**

[USE OMR FOR OBJECTIVE PART]

Duration: 1.30 hrs.

Full Marks: 35

Time: 15 min.

(Objective)

Marks: 10

1X10=10

Choose the correct answer from the following:

1. What is prepared from *Rosella montagnei*?
a. Food
b. perfume
c. drugs
d. Litmus paper
2. Black , basal, algal-free region of some lichens are nown as
a. Rhizines
b. Holdfast
c. Hepters
d. Hypothallus
3. Lichen that sticks tight to the substance on which it is growing on
a. Crustose Lichen
b. Foliose lichen
c. Fructicose Lichen
d. Filamentous Lichen
4. BG 11 media is used to grow
a. Green algae
b. Brown algae
c. Blue green algae
d. Red algae
5. Which of the following is/are the role phytoplankton
a. Pollution indicator
b. Oxygen producer
c. Shelter
d. All of the above
6. The amylum stars are found in
a. Oedogonium
b. Ectocarpus
c. Chara
d. Spirogyra
7. In Phaeophyceae, the gas filled structure is known as
a. Huneumatocysts
b. Pneumatocysts
c. Plastoneumatocysts
d. None of the above
8. Tychoplanktophytes are
a. They are found upon or inside the surface of the earth
b. Free and floating from very beginning of life cycle.
c. Attached to substrata in the beginning of life cycle and becomes free and floating in later stage of life cycle.
d. Free and floating in the beginning of life cycle and attached to substrata in the later stage of life.

9. Pantonematic flagellum is also known as
- | | |
|----------------|----------------|
| a. Tinsel | b. Whiplash |
| c. Pleurostima | d. Acronematic |
10. The reserve food of Euglenophyceae is
- | | |
|---------------------|--------------|
| a. Leucosine | b. Oils |
| c. Floridean Starch | d. Paramylon |

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(Descriptive)

Time : 1 hrs. 15 min.

Marks : 25

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

1. Discuss in detail the criteria for algal classification 5

2. Write short note on 5+5= 10
 - (a). Habitat and distribution of algae
 - (b). Reproduction in Bacillariophyceae

3. Discuss in detail the morphology and reproduction of Phaeophyceae 10

4. Write notes on 5+5=10
 - a) Biological importance of Phytoplankton
 - b) Algal Culture technique

5. Discuss asexual and sexual reproduction in Lichen with suitable diagram 5+5=10

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