

**M.Sc. BOTANY
FIRST SEMESTER
PHYCOLOGY AND LICHEN
MSB-103(REPEAT)
[USE OMR FOR OBJECTIVE PART]**

**SET
A**

Duration: 1.30 hrs.

Full Marks: 35

Time: 15 min.

(Objective)

Marks: 10

1X10=10

Choose the correct answer from the following:

1. The reserve food of Euglenophyceae is
 - a. Leucosine
 - b. Oils
 - c. Floridean Starch
 - d. Paramylon
2. Pantonematic flagellum is also known as
 - a. Tinsel
 - b. Whiplash
 - c. Pleurostima
 - d. Acronematic
3. 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.
4. In Phaeophyceae, the gas filled structure is known as
 - a. Huneumatocysts
 - b. Pneumatocysts
 - c. Plastoneumatocysts
 - d. None of the above
5. The amylum stars are found in
 - a. Oedogonium
 - b. Ectocarpus
 - c. Chara
 - d. Spirogyra
6. Which of the following is/are the role phytoplankton
 - a. Pollution indicator
 - b. Oxygen producer
 - c. Shelter
 - d. All of the above
7. BG 11 media is used to grow
 - a. Green algae
 - b. Brown algae
 - c. Blue green algae
 - d. Red algae
8. Lichen that sticks tight to the substance on which it is growing on
 - a. Crustose Lichen
 - b. Foliose lichen
 - c. Fruticose Lichen
 - d. Filamentous Lichen

9. Black, basal, algal-free region of some lichens are known as
 - a. Rhizines
 - b. Holdfast
 - c. Hepters
 - d. Hypothallus
10. What is prepared from *Rosella montagnei*?
 - a. Food
 - b. perfume
 - c. drugs
 - d. Litmus paper

(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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