

(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2025 ONLY)

25UBY101

REG.NO. :

N.G.M. COLLEGE (AUTONOMOUS): POLLACHI

END-OF-SEMESTER EXAMINATIONS: NOVEMBER-2025

B.Sc.- BOTANY

MAXIMUM MARKS: 75

SEMESTER: I

TIME: 3 HOURS

PART - III
PLANT DIVERSITY I
(PHYCOLOGY, MYCOLOGY AND BRYOLOGY)

SECTION – A

(10 X 1 = 10 Marks)

ANSWER THE FOLLOWING QUESTIONS.

K1

MULTIPLE CHOICE QUESTIONS.

1. General characters of algae include:_____.
a) Vascular tissue b) Roots and shoots c) Chlorophyll a and other pigments d) Seed formation
2. The reproductive structure of *Chara* is known as_____.
a) Rhizoids b) Antheridium and oogonium c) Sporangia d) Gemmae
3. *Mucor* belongs to which fungal class?
a) Zygomycetes b) Ascomycetes c) Basidiomycetes d) Deuteromycetes
4. Lichens are a symbiotic association between_____.
a) Bacteria and fungi b) Fungi and algae c) Fungi and bryophytes d) Algae and cyanobacteria
5. *Pogonatum* belongs to which group?
a) Liverworts b) Algae c) Mosses d) Lichens

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.

K2

6. Define the term "Algae."
7. Red algae.
8. Write any two economic importance of fungi.
9. Define foliose lichen.
10. Define sporophyte.

SECTION – B

(5 X 5 = 25 Marks)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.

K3

11. a) Describe the distribution and reproduction of Cyanophyceae (*Nostoc*).
(OR)
b) Explain the life cycle of Chlorophyceae (*Chara*).
12. a) Discuss the reproduction of Phaeophyceae (*Sargassum*).
(OR)
b) Give a short note on Economic importance of algae.

(CONTD.....2)

- 13.a) Explain the vegetative Structure of *Mucor*.
(OR)
b) Classification of fungi by Alexopoulos.
14. a) Write a brief note on Structure and reproduction of lichens.
(OR)
b) Examine an Economic importance of lichens.
15. a) Narrate the Development and reproduction of *Riccia*.
(OR)
b) Explain the Structure and life cycle of *Pogonatum*.

SECTION – C**(5 X 8 = 40 Marks)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K4 & K5)**

16. a) Explain the general characters of algae.
(OR)
b) Examine classification of algae by Fritsch.
17. a) Compare vegetative characters of *Sargassum* and *Polysiphonia*.
(OR)
b) Explain the reproduction methods in Diatoms.
18. a) Discuss the reproduction methods in *Penicillium*.
(OR)
b) Discuss the Economic importance of fungi.
19. a) Describe the Organization and ecological role of lichens.
(OR)
b) Classify the Lichens according to the morphology.
20. a) Explain the morphology of *Riccia* .
(OR)
b) With the help of diagram explain the alternation of generation in bryophytes.
