

(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2023 ONLY)

23UBY101

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS : NOVEMBER-2023
COURSE NAME: 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.

MULTIPLE CHOICE QUESTIONS.

(K1)

1. Heterosis is found in _____.
(a) Nostoc (b) Oedogonium (c) Sargasam (d) Chara
2. Agar-agar is obtained from various members of _____.
(a) Green algae (b) Brown algae (c) Red algae (d) Blue green algae
3. The youngest conidium is present at the base of the conidiophore are called as _____.
(a) Acropetal (b) Basipetal (c) Spiral (d) Bead like
4. The mutualistic association of algal and fungi are called as _____.
(a) Fungi (b) Algae (c) Lichen (d) Bryophytes
5. The fungi cell wall are composed of _____.
(a) Starch (b) Pectin (c) Cellulose (d) Chitin

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.

(K2)

6. Diplontic life cycle .
7. Define Thallus.
8. Saprophytes
9. Foliose lichen.
10. List any two vegetative features of bryophytes.

SECTION – B

(5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a) List out the general characters of algae.
(OR)
b) Describe the various reproductions found in *Nostoc*.
12. a) Demonstrate the reproduction of *Cyclotella* .
(OR)
b) List out the economic importance of algae.

(CONTD.....2)

13. a) Discuss the different mode of nutrition in fungi.

(OR)

b) Briefly explain the economic importance of fungi.

14. a) Illustrate the morphology of lichens .

(OR)

b) Organize the economic importance of lichen .

15. a) Prepare the general characters of bryophytes.

(OR)

b) Demonstrate the important features in Reimers classification of bryophytes.

SECTION – C

(5 X 8 = 40 MARKS)

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

(K4 (Or) K5)

16. a) Classify the algae by Fritsch system.

(OR)

b) Demonstrate the reproduction of *Sargassum*.

17.a) Explain the reproductive structure in *Polysiphonia*.

(OR)

b) Explain the reproduction and lifecycle of *Pinnularia*.

18. a) Classify the fungi according to Alexopoulos,1972.

(OR)

b) Explain the structure and Asexual reproduction in *Penicillium*

19.a) Evaluate life cycle of *Puccinia*.

(OR)

b) Write an essay on reproduction methods in Lichens.

20.a) Describe the structure and development of Antheridium in *polytrichum*.

(OR)

b) Write an essay on sexual reproduction found in *Riccia*.
