

(7 pages)

Reg. No. :

Code No.: 7776

Sub. Code: WBOM 11

M.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2023.

First Semester

Botany – Core

ALGAE, FUNGI, LICHENS AND BRYOPHYTES

(For those who joined in July 2023)

Time : Three hours

Maximum : 75 marks

PART A — (15 × 1 = 15 marks)

Answer ALL questions.

Choose the correct answer :

1. What is the mode of sexual reproduction in Chlorophyceae?

- (a) oogamous (b) anisogamous
(c) isogamous (d) all of these

2. Origin and evolution of sex in algae is best seen in

- (a) Blue green algae
(b) Green algae
(c) Red algae
(d) Brown algae

3. The spore of diatoms resulting from syngamy are called

- (a) Auxospore (b) Autospore
(c) Androspore (d) Zygospor

4. Who classified fungi under kingdom myceteae of super kingdom Eukaryota?

- (a) Whittaker
(b) Copeland
(c) Gregory
(d) Alexopoulos and Mims

5. Which mode of nutrition is found in fungi?

- (a) saprotrophic or parasitic
(b) only parasitic
(c) only saprotrophic
(d) none of the above

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6. Which division of fungi lacks flagella?
 (a) Mastigomycota (b) Amastigomycota
 (c) Gymnomycota (d) Basidiomycetes
7. Which of the following lichen is pioneer in xerosere?
 (a) fruticose lichen (b) foliose lichen
 (c) crustose lichen (d) leprose lichen
8. What is a common phycobiont in lichens?
 (a) *Trebouxia* (b) *Microcystis*
 (c) *Cetraria* (d) *Oedogonium*
9. Which lichen is known as Reindeer moss?
 (a) *Usnea* (b) *Rocella*
 (c) *Parmelia* (d) *Cladonia*
10. In which of the following, the Gemmae are vegetative reproductive structure
 (a) Angiosperms (b) Bryophytes
 (c) Algae (d) Gymnosperms
11. The basal swollen portion of the bryophytes archegonium is
 (a) Venter (b) Neck
 (c) Jacket (d) Oospere

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12. In which one of the following the Pseudopodium is present.
 (a) *Funaria* (b) *Polytrichum*
 (c) *Porella* (d) *Anthoceros*
13. Which of the following is used as an absorbent of nitroglycerine in the manufacture of dynamite?
 (a) Diatomite (b) Carrageenin
 (c) Agar (d) Algin
14. Which of these entities is an indicator of the SO₂ pollution of air?
 (a) Puffballs (b) Mushrooms
 (c) Mosses (d) Lichens
15. Which among the following is an incorrect statement?
 (a) Bryophytes prevent soil erosion
 (b) Bryophytes decompose rocks and make soil fertile
 (c) Bryophytes are used in packing materials and are also good fuel
 (d) Bryophytes don't absorb water and are used to pack food materials

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[P.T.O.]



PART B — (5 × 4 = 20 marks)

Answer ALL questions, choosing either (a) or (b).

16. (a) Summarize the salient features of Cyanophyceae.

Or

- (b) Summarize the salient features of Rhodophyceae.

17. (a) Explain the mode of nutrition in Fungi.

Or

- (b) Summarize the general characters of Zycomycotina.

18. (a) Explain the habit and habitat of Lichens.

Or

- (b) Describe the internal structure of heteromorous Lichens.

19. (a) Explain the spore germination patterns of Bryophytes.

Or

- (b) Summarize the general characters of Jungermanniales.

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20. (a) Write the economic importance of lichens.

Or

- (b) Summarize the commercial importance of algae.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

21. (a) Enumerate the various patterns of life cycle in algae.

Or

- (b) Describe the reproduction in *Ulva*.

22. (a) Describe the sexual reproduction in fungi.

Or

- (b) Describe the life cycle of *Polyporus*.

23. (a) Discuss the general characteristics of lichens.

Or

- (b) Enumerate the various type reproductions in lichens.

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24. (a) Discuss about evolution of sporophyte in bryophytes.

Or

- (b) Describe the development of antheridium in *Porella*.

25. (a) Discuss about the economic importance of fungi.

Or

- (b) Discuss about the economic importance of bryophytes.
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