

(6 pages)

Reg. No. :

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M.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2019.

First Semester

Botany – Core

ALGOLOGY AND BRYOLOGY

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer.

1. Venter is the part of
- (a) Sporogonium
 - (b) Sporangium
 - (c) Antheridium
 - (d) Archegonium

2. In which of the following groups would you place a plant which produces spores and embryos but lacks seeds and vascular tissue
- (a) Fungi
 - (b) Bryophytes
 - (c) Pteridophytes
 - (d) Gymnosperms
3. Bryophytes are of
- (a) Great economic value
 - (b) No value at all
 - (c) Great ecological importance
 - (d) A lot of aesthetic value
4. Last stage of gametophytic generation is
- (a) Gametes
 - (b) Zygote
 - (c) Spore mother cells
 - (d) Spores
5. Which one of the following is true moss
- (a) Club moss
 - (b) Reindeer moss
 - (c) Irish moss
 - (d) Bogg moss (Sphagnum)



6. Elaters are present in sporogonium of
 - (a) Riccia
 - (b) Marchantia
 - (c) Selaginella
 - (d) Sphagnum
7. One of the following is of considerable economic importance
 - (a) Riccia
 - (b) Funaria
 - (c) Marchantia
 - (d) Sphagnum
8. Bryophytes can be separated from algae, because they
 - (a) Are thalloid forms
 - (b) Have no conducting tissue
 - (c) Possess archegonia
 - (d) Contain chloroplast
9. Gemmae are vegetative reproductive structures found in
 - (a) Angiosperms
 - (b) Bryophytes
 - (c) Algae
 - (d) Gymnosperms
10. Which place in India is called "The Golden Mine of Liverworts"
 - (a) Eastern Himalayas
 - (b) Western Himalayas
 - (c) Western Ghats
 - (d) Eastern Ghats

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Briefly discuss about the trends of Algae classification.

Or

- (b) Briefly explain the Cultural practices of Porphyra.

12. (a) Discuss in brief the utilization of Algae in Industry.

Or

- (b) Write critical notes on the following Use of Blue green Algae in Agriculture.

13. (a) Give a concise account on the asexual reproduction of algae.

Or

- (b) What are the distinctive features of chlorophyceae.

14. (a) Give a general characters of algae.

Or

- (b) Enlist the type of rhizoids in bryophytes.



15. (a) Give the economic importance of algae.

Or

- (b) Write short note on thallophytes.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Write the life history of phaeophyceae.

Or

- (b) Give the differentiation of bacillariophyceae and cyanophyceae.

17. (a) With the help of heat labeled diagram describe the thallus structure of algae.

Or

- (b) Enlist the methods of vegetative reproduction in chara.

18. (a) Give the economic importance of bryophyte.

Or

- (b) Write an essay on Rothmaler (1951) classification of bryophyte.

19. (a) Write an the classification of algae (Fritsch, 1935)

Or

- (b) State the general characters of *rhodophyta*.

20. (a) Give the detailed account on the role of algae in soil fertility.

Or

- (b) Describe the vegetative propagation in algae.

