

(6 pages)

Reg. No. :

Code No. : 9081

Sub. Code : PBOM 11

M.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2017.

First Semester

Botany

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. The term 'algae' was coined by
(a) Theophrastus (b) Fritsch
(c) Engler (d) Linnaeus
2. Mannitol is the reserve food in
(a) Rhodophyceae (b) Chlorophyceae
(c) Phaeophyceae (d) Xanthophyceae

3. Sexual reproduction is absent in
(a) Myxophyceae (b) Chlorophyceae
(c) Phaeophyceae (d) Xanthophyceae
4. Chlorophyll - d is present in
(a) Myxophyceae (b) Rhodophyceae
(c) Phaeophyceae (d) Xanthophyceae
5. Mark the edible algae
(a) *Porphyra* (b) *Nostoc*
(c) *Laminaria* (d) All of these
6. Agar-agar is derived from
(a) *Nostoc* (b) *Gigartinia*
(c) *Ulva* (d) None of these
7. The amphibians of plant kingdom are
(a) Algae
(b) Bryophytes
(c) Thallophytes
(d) Floating plants

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8. In most of the bryophytes the venter is
 (a) One layered (b) Two layered
 (c) Three layered (d) Absent
9. The gemmae are asexual reproductive bodies in
 (a) Liverworts only
 (b) Hornworts only
 (c) Liverworts and mosses
 (d) All of these
10. The bryophytes are commonly reproduced by
 (a) Tubers
 (b) Adventitious branches
 (c) Gradual death and decay of thallus.
 (d) Bulbils

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Explain the general characters of algae.
 Or
 (b) Write short notes on occurrence of algae.

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12. (a) Give a concise account on pigments of algae.

Or

- (b) Explain the cell wall components.

13. (a) Briefly explain the uses of algae in food preparation.

Or

- (b) Narrate the uses of algae in industrial products.

14. (a) Describe the general characters of bryophytes.

Or

- (b) Write short notes on interrelationships in bryophytes.

15. (a) Write about sporophyte of *Anthoceros* with suitable diagram.

Or

- (b) Describe the *Naiadita lanceolata* fossil.

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PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

- 16 (a) Write an essay on Fritsch (1935) classification of algae.

Or

- (b) Enumerate the economic importance of algae.

- 17 (a) Give a detailed account on reserve foods.

Or

- (b) Explain the structure and function of flagella with diagram.

- (a) Enumerate the role of algae in soil fertility.

Or

- (b) Describe the uses of algae in medicine preparation.

- 19 (a) Write an essay on Rothmaler (1951) classification of bryophytes.

Or

- (b) Narrate the general characters of any three major orders in bryophytes.

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20. (a) Describe the life-cycle pattern of bryophytes.

Or

- (b) Give an account on ecological adaptation of bryophytes.

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