

AQ – 817

**First Semester M. Sc. (Part – I) (CBCS)
Examination**

BOTANY

Paper – III

(Biology and Diversity of Algae and Bryophytes)

P. Pages : 3

Time : Three Hours]

[Max. Marks : 80

-
- Note :** (1) All questions are compulsory.
(2) All questions carry equal marks.
(3) Illustrate your answers with suitable diagrams and examples.
(4) Draw well labelled diagram wherever necessary.

1. Write on :—

- | | |
|-------------------------------------|---|
| (a) Thallus range in Algae. | 5 |
| (b) F. E. Fritsch's classification. | 5 |
| (c) Cyanophycean cell structure. | 6 |

OR

- | | |
|---|---|
| (d) Reproduction in Algae. | 5 |
| (e) Flagellar movement in Algae. | 5 |
| (f) Alternation of generation in Algae. | 6 |

AQ-817

P.T.O.

2. Give a general account of chlorococcales. 16

OR

Discuss in detail the general account of Xanthophycere. 16

3. Write on :—

- (g) Reproduction in Rhodophyta. 5
- (h) Fossil Algae. 5
- (i) Phytoplanktons and water blooms. 6

OR

- (j) Algae as biofertilizer. 5
- (k) Thallus organization in phaeophyta. 5
- (l) Algae as pollution indicator. 6

4. Give a general account of vegetative reproduction in bryophytes.

OR

Give a general account of classification in bryophytes. 16

5. Write on :—

- (m) General characteristic features of order marchantiales. 5
- (n) Thallus organization in sphaerocarpales. 5
- (o) Justify retrogressive evolution in gamotophyte. 6

OR

- (p) Sporophyte in Anthocerotales. 5
- (q) Reproductive structure in Bryales. 5
- (r) Reproduction in sphagnales. 6

