

1/EH-62 (i) (Syllabus-2015)

2016

(October)

BOTANY

(Elective/Honours)

(Algae, Bryophytes and Pteridophytes)

(BOT-ELH-101)

Marks : 56

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

Answer Question No. 1 which is compulsory and
other **four**, selecting **one** from each Section

1. Write short notes on the following : 4×4=16

- (a) Importance of pigments in algal classification
- (b) Cystocarp of *Polysiphonia*
- (c) Antheridiophore of *Marchantia*
- (d) Strobilus of *Lycopodium*

SECTION—I

2. Describe the range of vegetative structures in Phaeophyceae with suitable diagrams. 10
3. Give an account on the Lee's classification of algae. 10

SECTION—II

4. Give a general account on the economic importance of algae. 10
5. Describe the life cycle of *Oedogonium* with diagrams. 10

SECTION—III

6. Describe the life cycle of *Anthoceros* with labelled diagrams. 10
7. Describe the classification of bryophytes according to Proskauer. 10

SECTION—IV

8. Describe heterospory and seed habit in pteridophytes. 10
9. Describe in detail the evolution of stele in pteridophytes with suitable diagrams. 10
