

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

2018

(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 notes on the following : 4×4=16

(a) Salient features of Chlorophyceae

(b) Cell structure of centric diatoms

(c) Capsule of *Sphagnum*

(d) Economic importance of pteridophytes

(2)

SECTION—I

2. Give an account on the types of life cycle in green algae. 10
3. Describe the range of vegetative structures of Phaeophyceae. 10

SECTION—II

4. Give a general account on the economic importance of algae. 10
5. Describe the post-fertilization changes and development of cystocarp in the life cycle of *Polysiphonia* with suitable diagrams. 6+4=10

SECTION—III

6. With the help of suitable diagrams, describe the range of gametophytic structures in bryophytes. 4+6=10
7. Give an account on the sexual reproduction in *Marchantia* with diagrams. 6+4=10

D9/19

(Continued)

(3)

SECTION—IV

8. Describe the following : 5×2=10
(a) Rhizophore of *Selaginella*
(b) LS of strobilus of *Selaginella*
9. Write notes on the following : 5+5=10
(a) Telome concept
(b) Heterospory and seed habit in pteridophytes

D9—3000/19

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