

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

2017
(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) Haplobiontic life cycle in green algae
- (b) Female sex organ of *Chara*
- (c) Gemma cups
- (d) Siphonostele

(Turn Over)

(2)

SECTION—I

2. Give an account of Fritsch's classification of algae. 10
3. Describe the range of vegetative structures of Rhodophyceae. 8+2=10

SECTION—II

4. Give an account of the evolution of sex in algae. 10
5. Describe asexual reproduction in *Ectocarpus* giving suitable diagrams. 8+2=10

SECTION—III

6. Give an illustrated account of the evolution of sporophyte in Bryophytes. 4+6=10
7. Describe the following with suitable diagrams : (3+2)×2=10
- (a) Sporophyte of *Anthoceros*
- (b) Archegoniophore of *Marchantia*

8D/39

(Continued)

(3)

SECTION—IV

8. What is alternation of generations? Explain with the help of the life cycle of *Lycopodium*. 2+8=10
9. Write notes on the following : 5×2=10
- (a) Economic importance of pteridophytes
- (b) Telome concept

8D—2900/39

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