BOT-ELH—101 (Syllabus-2015)

(October)

2015 St. Anthony's College

BOTANY

(Elective/Honours)

FIRST PAPER

(Algae, Bryophytes and Pteridophytes)

Marks: 56

Time: 3 hours

The figures in the margin indicate full marks for the questions

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

- Write short notes on the following: 4×4=16
 - Cell structure of diatoms (a)
 - (b) Globule of Chara
 - (c) Archegoniophore of Marchantia
 - Strobilus of Selaginella (d)

SECTION-I

- 2. Describe, in detail, the range of vegetative structures in Chlorophyceae with diagrams.
- 3. Give an account of Fritsch's classification with its salient characters.

SECTION-II

- **4.** Describe, with diagrams, the life cycle of *Polysiphonia*.
- 5. Write, in detail, the evolution of sex in algae.

SECTION—III

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- 6. With the help of suitable diagrams, describe the evolution of sporophytes in bryophytes.
- Give an illustrative account of the range of gametophytic structures in bryophytes.

SECTION-IV

- Discuss the evolution of stele in pteridophytes with suitable diagrams.
- 9. (a) With suitable diagrams, describe different types of gametophyte of Lycopodium.
 - (b) Write a note on the economic importance of pteridophytes.

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