

Roll No.

91038

**B. Sc. (Hons.) Chemistry 1st sem.
Examination – December, 2015**

BOTANY-I OPTIONAL

Time : Three Hours]

[Maximum Marks : 40

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: There are nine questions in all. Candidates are required to attempt five questions. Question No. 1 is compulsory consisting of 10 parts (1 mark each). Out of remaining eight questions select at least one question from each Unit.

SECTION - I

1. (i) What is oogamy. 1
(ii) Name any two Blue green Algae. 1
(iii) The Fungus partner of Lichen is called as..... 1

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(b) Give an account of general characters of Bryophytes. 5

UNIT - III

6. Explain the salient features and diagnostic characteristics of Gymnosperms. 7

7. Write short notes on :

(a) Essential oils 3

(b) Evolution of seed habit in Gymnosperms. 4

UNIT - IV

8. Explain the Broad outline of Bentham & Hooker system of classification with merits and demerits. 7

9. Write short notes on :

(a) Role of Herbaria and Botanical Gardens. 4

(b) International code of botanical nomenclature of Angiosperms. 3

(iv) Name an antibiotic obtained from Penicillium. 1

(v) Name the Plant in which Coralloid roots are present. 1

(vi) Reproductive structure of Equisetum is called as..... 1

(vii) Seeds are in Gymnosperms. 1

(viii) In Angiosperms Archegonia are 1

(ix) What is bisexual flower. 1

(x) Name any two Botanical gardens in India. 1

UNIT - I

Write short notes on :

(a) Lichens. 4

(b) Mycorrhiza 4

3. (a) Describe the range of Thallus structure in Algae. 4

(b) Explain Asexual reproduction in Fungus. 4

UNIT - II

4. (a) Give the economic importance of Bryophytes. 4

(b) Describe briefly the evolution of stellar system in Pteridophytes. 4

5. (a) Discuss the seed habit in Pteridophytes. 3