(b) Describe the life cycle and reproduction of cyanophycae.

16. (a) Describe the structure and reproduction of ascomycotina.

(OR)

(b) Enumerate the features of importance of the sporophytes in the Bryophyta.

Register Number :

Name of the Candidate :

2 0 0 5

M.Sc. DEGREE EXAMINATION, 2010

(BOTANY)

(FIRST YEAR)

(PAPER - I)

110. PHYCOLOGY, MYCOLOGY AND BRYOLOGY

May] [Time : 3 Hours

Maximum : 100 Marks

SECTION - A (8 × 3 = 24)

Answer ALL questions.
Each answer should not exceed FIFTY words.
All questions carry equal marks.

1. Palmella stage.

2. Parthinospores.

3. Karyogamy.

4. Ascospsores.

5. Gametangial copulation.

6. Akinete.

7. Ascogonium.

8. Apothecium.

SECTION - B (6 × 6 = 36)

Answer ALL questions.
Each answr should not exceed 300 words.
All questions carry equal marks.

9. (a) Describe the development of heterocyst.

(OR)

(b) Describe the life cycle of chlorophyceae.

10. (a) Describe role of algae in soil fertility.

(OR)

(b) Describe the structure and reproduction of phacophyceae.

11. (a) Write an account on the sexual reproduction in Myxomycetes.

(OR)

(b) Write a short note on heterothallism.

12. (a) Discuss the economic importance of fungi.

(OR)

(b) Describe the salient features of deuteromycotina.

13. (a) Write an account on the economic importance of Lichen.

(OR)

(b) Describe the internal and external structures of different types of Lichens.

14. (a) Explain the gametophyte murchuntiales.

(OR)

(b) Write short notes on fossil Bryophytes.

SECTION - C (2 ×20 = 40)

Answer ALL questions.
Each answer should not exceed 1,200 words.
All questions carry equal marks.

15. (a) Write an essay on the classificaiton of algae by F.E.Fritsch.

(OR)