

SECTION – C (2 × 20 = 40)*Answer ALL questions.**Each answer should not exceed 1,200 words.**All questions carry equal marks.*

15. (a) Describe reproduction and life cycles of algae.

(OR)

- (b) Write an account on the thallus organisation in algae.

16. (a) Write an account on the economic importance of fungi.

(OR)

- (b) Describe the phylogenetic relationships and evolution of sporophyte in bryophytes.

Register Number :

Name of the Candidate :

1 7 1 3**M.Sc. DEGREE EXAMINATION, 2008****(BOTANY)**

(FIRST YEAR)

(PAPER - I)

110.PHYCOLOGY, MYCOLOGY AND BRYOLOGY*(Revised Regulations)*

May]

[Time : 3 Hours

Maximum : 100 Marks

SECTION – A (8 × 3 = 24)*Answer ALL questions.**Each answer should not exceed 50 words.**All questions carry equal marks.*

1. Encystment.
2. Heterocyst.
3. Alginic acid.

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4. Basidiospore.
5. Apothecium.
6. Blastospore.
7. Scales and Rhizoids.
8. Apophysis.

SECTION – B (6 × 6 = 36)

Answer ALL questions.

Each answer should not exceed 300 words.

All questions carry equal marks.

9. (a) Describe the development of heterocyst and its functions.
(OR)
(b) What are the uses of agar – agar and alginic acids and what its resources ?
10. (a) Describe the development of cystocarp in Rhodophyceae.
(OR)
(b) Write an account on the food and fertilizer value of algae.

11. (a) Describe parasexuality in fungi.
(OR)
(b) How the Basidiomycotina differs from Deteromycotina ?
12. (a) Briefly describe the Phylogeny and affinities of different groups of fungi.
(OR)
(b) Describe the reproduction and symbiotic association of lichens.
13. (a) Describe the development of sporophyte in *Polytrichum*.
(OR)
(b) Write an account on the gametophytes of Marchantiales.
14. (a) Write an account on the classification of bryophytes by Watson.
(OR)
(b) How do you evaluate that the Anthocerales are evolved over Marchantiales ?

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