

17. (a) Write an essay on economic importance of algae.

Or

- (b) Write about the importance of algal species in water pollution.

18. (a) Write an essay on classification of fungi by aletopoulous.

Or

- (b) Write briefly about Deuteromycetes and its characters.

19. (a) Write an essay on thallus organization in lichens

Or

- (b) Comment on ecological significance of lichens.

20. (a) Comment on the general character and evolution of bryophytes from thallophytes.

Or

- (b) Describe the structure of sporophyte in Bryophytes.

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M.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2013.

First Semester

Botany

PLANT DIVERSITY – I — ALGAE, FUNGI, LICHENS
AND BRYOPHYTES

(For those who joined in July 2012 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer.

1. Heterocysts are found in
(a) chlorophyceae (b) phaeophyceae
(c) rhodophyceae (d) hyxophyceae
2. Alginic acid is obtained from
(a) chlorophyceae (b) phaeophyceae
(c) rhodophyceae (d) hyxophyceae



3. Cyanophyceae reproduce by means of
 - (a) antrospore (b) zoospore
 - (c) aplanospore (d) none
4. Diatomin is obtained from
 - (a) chara (b) diatoms
 - (c) polysiphonia (d) none
5. Mycotrophy is the symbiosis of a fungus with
 - (a) bacteria (b) algae
 - (c) bryophytes (d) other fungi
6. In Ascomycetes karyogamy occurs within the
 - (a) ascogonium (b) antheridium
 - (c) ascus (d) ascogone hypha
7. In foliose and fruticose lichens the thallus is ——— in nature
 - (a) homonuclear (b) heteromercous
 - (c) both (d) none
8. ——— is the female sex organ in lichens
 - (a) ascogonium (b) archogonium
 - (c) oogonium (d) none
9. Advanced sporophyte is seen in
 - (a) riccia (b) porella
 - (c) sphagnum (d) anthoceros
10. Stomata present in the capsule wall of
 - (a) marchantia (b) anthoceros
 - (c) porella (d) riccia.

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Write a brief account of nutrition in algae.
Or
(b) Write short notes on : Palmella stage.
12. (a) Write notes on Fossil algae.
Or
(b) Write notes on nitrogen fixation.
13. (a) Add a note on haustorium.
Or
(b) Write notes on economic importance of fungi.
14. (a) Lichens are absent in cities - why?
Or
(b) Write about the fruiting body and lichens.
15. (a) Comment on Gemma cup.
Or
(b) Comment on stomata of Riccia thallus.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

16. (a) Write an essay on classification of algae.
Or
(b) Give the various modes of reproduction in algae.

