(6 pages) **Reg. No. :** .....

Code No. : 8773 **Sub. Code : KBOM 11**

M.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2016.

First Semester

Botany.

PLANT DIVERSITY I – ALGOLOGY AND BRYOLOGY

(For those who joined in July 2016 onwards)

Time : Three hours Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Nitrogen fixation in soil caused by
   (a) Chlorophyceae
   (b) Phaeophyceae
   (c) Myxophyceae
   (d) Rhodophyceae

2. High protein contents are found in
   (a) Chlorella (b) Chlamydomanas
   (c) Spirogyra (d) Ulothrix

3. The plant body appears as 'Tree like' under microscope
   (a) Echallocytis (b) Anabena
   (c) Oscillatoria (d) Chara

4. Diplobinotic type of life cycle in found in
   (a) Vaucheria (b) Oedogonium
   (c) Polysiphonia (d) Ectocarbus

5. Carrageen is obtained from
   (a) Chara (b) Polysiphonia
   (c) Sargassum (d) Chondrus

6. Red rust of tea is caused by
   (a) Puccinia (b) Ustilage
   (c) Melampsora (d) Cepholeuros

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7. Advanced sporophyte is seen in

(a) Riccia (b) Porella

(c) Sphagnum (d) Anthocerus

8. Leptoids are present in

(a) Polytrichom (b) Anthouros

(c) Marchantia (d) Sphagnum

9. Which group of plants constitute the lower bryophytes

(a) Liverworts (b) Mosses

(c) Anthoceratles (d) Jungermaniales

10. The protonema is a stage in the life cycle of

(a) Riccia (b) Funaria

(c) All hryophytes (d) Hepaticites

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Mention the characteristic features of Cyanophyceae.

Or

(b) Outline the classification of algae.

12. (a) Give a brief account on the Life cycle of Ulva.

Or

(b) Give an account on algal pigments.

13. (a) Give short notes on economic importance of Algae.

Or

(b) Write notes on role of algae in soil fertility.

14. (a) Describe the general characters of Bryophytes.

Or

(b) Explain the thallus of Anthoceros.

15. (a) Describe the different types of reproduction in Bryohytes.

Or

(b) Explain fossil bryophytes.

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PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Describe with examples on fossil Algae.

Or

(b) Write an essay on structure and sexual reproduction of Chlorella.

17. (a) Give an account on culture of micro and macro algae.

Or

(b) Explain the structure and reproduction of chara.

18. (a) Give an account on various life cycle patterns in algae.

Or

(b) Write notes on ecological importance of algae.

19. (a) Bring the evolutionary significance of Anthoceros sporophyte.

Or

(b) Describe the structure and reproduction of genere in the order Jungermannides.

20. (a) Trace the evolution of sporophytes in Bryophytes.

Or

(b) Give an account on ecological adaptation of Bryophtes.

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