

Total No. of Pages: 2

Register Number:

6398

Name of the Candidate:

M.Sc. DEGREE EXAMINATION December 2014

(BOTANY)

(FIRST YEAR)

110: PHYCOLOGY, MYCOLOGY AND BRYOLOGY

Time: Three hours

Maximum: 100 marks

SECTION-A

Answer ALL questions

(8 × 3 = 24)

Each answer not to exceed 50 words

Explain the following:

1. Isogamy vs. Oogamy
2. Palmella stage
3. Microspores vs Monospores
4. Heterothallism
5. Mushroom's fairy rings
6. Elators vs pseudoelators
7. Horn worts
8. Rhizoids vs scales

SECTION-B

Answer ALL questions

(6 × 6 = 36)

Each answer not to exceed 300 words

9. a) General characters and classification of algae.
(OR)
b) Sexual reproduction in *Cladophora*.
10. a) Give an account of external and internal features of *Sargassum*.
(OR)
b) Describe the sexual reproduction in *Oedogonium*.

11. a) Give a comparative account of rusts and smuts.
(OR)
b) Describe the life history of *Puccinia*.
12. a) Give an account of reproduction in Mosses.
(OR)
b) Give an account reproduction in *Anthoceros*.
13. a) List out economic importance of bryophytes.
(OR)
b) Write an account of fossil bryophytes.
14. a) Describe the economic importance of lichens.
(OR)
b) Give an account of reproduction methods in lichens.

SECTION-C

Answer ALL questions

(2 × 20 = 40)

Each answer not to exceed 1200 words

15. a) Give an account of thallus variation in algae.
(OR)
b) Give an account of various types of life cycles in algae.
16. a) Write an essay of classification, origin and evolution of bryophytes.
(OR)
b) Write an essay of classification, origin and evolution of fungi.

&&&&&&