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1 SEM TDC BOT M 1

2018
(November)
BOTANY
(Major)

Bot - 101
Geo - 101
Stat - 101
Zoo - 101
Phy - 101
Math - 101
Che - 101

Course : 101

Math - 6

(Algae, Fungi and Lichen)

Full Marks : 48
Pass Marks : 19/14

Time : 2 hours

The figures in the margin indicate full marks
for the questions

1. (a) Answer as directed : 1×5=5
- (i) Cap cells are found in *Spirogyra*/
Chara/*Vaucheria*/*Oedogonium*.
(Choose the correct answer)
- (ii) Nitrogen fixation in the soil is
caused by _____ algae.
(Fill in the blank)
- (iii) Hard and brittle spongy wall of
Myxomycetes is called _____.
(Fill in the blank)

(iv) Write the name of a heterothallic fungus.

(v) Which lichen is commonly called 'reindeer moss'?

(b) Write short accounts of the following :

3×4=12

(i) Thallus structure of *Vaucheria*

(ii) Salient features of *Bacillariophyceae*

(iii) Fruit body of *Cyathus*

(iv) Development of ascus and ascospore in *Peziza*

2. Give a detailed account of the range of thallus structure in algae with suitable diagrams.

8+4=12

Or

Give a comparative account of the thallus structure of *Ectocarpus* and *Polysiphonia*. Describe the methods of asexual reproduction in *Ectocarpus* with suitable diagrams.

8+4=12

3. With suitable diagrams, write the mode of sexual reproduction found in different groups of fungi. Which type is highly evolved and why?

9+1+2=12

(3)

Or

Give a comparative account of the conidiophore and conidia of *Aspergillus* and *Alternaria*. Also, write a note on the development and dissemination of sporangia of *Albugo*.

6+4+2=12

4. What do you mean by consortium? Draw and describe the internal structures of homoiomerous and heteromerous lichen thallus.

2+2½+2½=7

Or

Mention the features of special interest in lichen. Why are lichens normally not found in cities?

5+2=7
