

Total No. of Printed Pages—3

1 SEM TDC BOT M 1

2015

(November)

BOTANY

(Major)

Course : 101

(Algae, Fungi and Lichen)

Full Marks : 48

Pass Marks : 19 (backlog) / 14 (2014 onwards)

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

1. (a) Choose and write the correct answer of the following : 1×3=3
- (i) Mannitol is the storage food of Chlorophyceae/ Phaeophyceae/ Rhodophyceae.
 - (ii) Polymorphism is found in *Puccinia*/ *Aspergillus*/ *Peziza*.
 - (iii) *Cladonia*/ *Cetraria*/ *Roccella* is commonly called as reindeer moss.

(b) Fill up the blanks of the following : $1 \times 2 = 2$

(i) The nature of ribosome of blue-green algae is _____.

(ii) Hard and brittle sporangial wall of Myxomycetes is called _____.

2. Write short accounts of the following :

$3+3+4+2=12$

(a) Dwarf male of *Oedogonium*

(b) Asexual reproduction of *Vaucheria*

(c) Heterothallism in fungi with example

(d) Conidia of *Penicillium*

3. Give a detailed account of the phylogeny and distribution pattern of algae in India. Also, write a note on algal chromatophores.

$5+5+2=12$

Or

Give a comparative account of the thallus structure of *Batrachospermum* and *Polysiphonia* with the help of diagrams. Describe the asexual reproduction of *Batrachospermum* with diagram.

$8+4=12$

4. What are the criteria basing on which fungi are classified? Give a brief account of the classification of fungi suggested by Alexopoulos.

$4+8=12$

Or

Draw suitable diagram and describe the life history of *Cyathus*. Discuss the economic value of *Agaricus* in the modern society.

3+6+3=12

5. What are lichens? Give an account of the various types of lichen with examples. Why are lichens not found in the cities? 1+4+2=7

Or

Give an account of the mode of sexual reproduction in lichens. State briefly its nutrition.

5+2=7
