## 1 SEM TDC BOT M 1

2017

(November)

BOTANY

( Major )

Course : 101

( 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

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1. (a) Answer as directed:  $1 \times 5=5$ 

(i). The storage food of red algae is

(Fill up the blank)

(ii) Phycocyanin is the characteristic pigment of myxophyceae /chlorophyceae / xanthophyceae / phaeophyceae.

( Choose the correct answer)

(iii) The double reduction in the number of chromosomes in the ascus.

(Express in one word)

- (iv) Write the name of a 'polymorphic fungus'.
- (v) The algal component of lichen is called \_\_\_\_\_.

Tyles a (Fill up the blank)

- (b) Write short accounts of the following:

  3×4=12
  - (i) Formation and in auxospores in Centrales
  - (ii) Conidiophore and conidia of
- (iii) Heterothallism in Rhizopus
  - (iv) Heterocyst
- 2. Give a detailed account of the phylogeny and distribution pattern of algae in India. Write briefly about the economic importance of algae.

  4+4+4=12

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Describe with diagram the structure of the thallus and sexual reproduction in Fucus.

State the phenomenon of alternation of generation observed in this plant. 4+4+4=12

3. Describe the life history of an edible fungus that you have studied. State its systematic position. 10+2=12

Or

Describe briefly the mode of nutrition and mode of spore dispersal in Fungi. 5+7=12

4. What are the various vegetative structures met within lichen thallus? Give a brief account of the reproduction in lichen. 3+4=7

Or

Mention the function of mycobiont of a lichen. Describe with diagram the detailed internal structure of a foliose lichen. 2+5=7

