

Avinashilingam Institute for Home Science and Higher Education for Women  
(Deemed to be University) Coimbatore-641 043

Bachelor's Degree Examination – November 2018

I Semester

Class : I UG  
Major : Botany

Time : 3 hours  
Max. Marks: 100

18BBOCO2- Algae, Fungi and Lichens

Part-A

10 x 1=10

Choose the correct answer

1. Unicellular motile algae is \_\_\_\_\_  
a. *Pandotina*                      b. *Eudorina*                      c. *Volvox*                      d. *Chlamydomonas*
2. The algae may be used in space ship as food  
a. *Chlorella*                      b. *Chlorococcum*                      c. *Chlamydomonas*                      d. *Ulothrix*
3. The pit connections are found in \_\_\_\_\_  
a. *Chara*                      b. *Ectocarpus*                      c. *Polysiphonia*                      d. *Oedogonium*
4. Agar –Agar is obtained form  
a. *Batrachospermum*                      b. *Polysiphonia*                      c. *Gracilaria*                      d. *Nemalion*
5. The classification of fungi is based mainly on  
a. the structure of vegetative mycelium                      b. the asexual stage  
c. the sexual reproductive stage                      d. both the mycelial structure and sexual stages
6. Fungal hyphae penetrate hard cell wall of their host with the help of  
a. enzymes                      b. hormones                      c. hard tips                      d. haustoria
7. What is the fruit body of *Penicillium* called  
a. Perithecium                      b. clestothecium                      c. apothecium                      d. stroma
8. Fermentation of sugar occurs by  
a. *Saccharomyces*                      b. *Rhizopus*                      c. *Mucor*                      d. *Penicillium*
9. Vegetative reproduction in lichens occurs by  
a. Soridia                      b. Isidia                      c. Fragmentation                      d. Cephalodia
10. Litmus is obtained from  
a. *Usnea*                      b. *Cladonia*                      c. *Peltigera*                      d. *Roccella*

## Answer the following

Answer should not exceed 400 words or two pages

11.a. Give an account of the morphology of *Oscillatoria*

(or)

11.b. Describe the vegetative structure of *Volvox*12.a. Explain the structure development of antheridium in *Vaucheria*

(or)

12.b. Illustrate the vegetative structure of *Ectocarpus*13.a. Recall the symptoms and vegetative structure of *Albugo*

(or)

13. b. Give the outline of Alexopoulos classification of fungi

14. a. Describe the fruit body of *Polyporus*

(or)

b. Write a note on economic importance of fungi

15. a. What are the types of lichens studied by you?

(or)

b. Enumerate the internal structure of lichens

## Part C

5 x 12=60

## Answer the following

Answer should not exceed 800 words or four pages

16.a. Write an essay on sexual reproduction observed in *Oedogonium*

(or)

b. Describe the various methods of Sexual reproductions seen in *Chlamydomonas*

17.a. Write an essay on economic importance of algae

(or)

b. Illustrate the structure and development of female reproductive organ in *Polysiphonia*18.a. Describe the asexual reproduction in *Albugo*

(or)

b.. Explain the reproduction in *Penicillium*.19.a. Describe the structure and reproduction of *Fusarium*.

(or)

b. Describe the any two types of spores produced in *Puccinia*

20. a. Write the methods of reproduction in Lichens

(or)

b. Enumerate the Economic importance of lichens

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