

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

**B.Sc. (Microbiology) (Sem.-4)**  
**PHYCOLOGY AND MYCOLOGY**

Subject Code : BSMB401-20

M.Code : 92099

Date of Examination : 05-07-22

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

**SECTION-A**

**1. Write briefly :**

- a) Significance of Auxospores in diatoms
- b) Neurospora
- c) Chara
- d) Symptoms of Histoplasma infection.
- e) Microsporium
- f) General characters of Cyanobacteria
- g) Biofuel
- h) Economic Importance of algae
- i) Applications of fungi in medicine
- j) Phycology.

### SECTION-B

2. Write a brief note on opportunistic infection.
3. Discuss the occurrence and life cycle of Coleochaete.
4. Elaborate pathogenesis and transmission of Trichophyton.
5. Explain in brief true slime molds.
6. Discuss lichens as indicator of pollutions. What are the interrelationship of phycobionts and mycobionts?

### SECTION-C

7. Elaborate symptoms, pathogenesis, transmission and control of dermatophytoses infection.
8. Write a brief note on occurrence, somatic structure and life cycle of Neocallimastix fungi.
9. Discuss occurrence, thallus organization and life cycle of Polysiphonia algae.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**