

Enrollment No: _____

Exam Seat No: _____

C. U. SHAH UNIVERSITY

Summer Examination-2022

Subject Name: Mycology and Phycology

Subject Code: 5SC01MAP1

Branch: M.Sc. (Microbiology)

Semester: 1

Date: 25/04/2022

Time: 11:00 To 02:00

Marks: 70

Instructions:

- (1) Use of Programmable calculator and any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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SECTION – I

Q-1 Attempt the Following questions (07)

- a. Define hyphae 01
- b. Enlist the type of spore found in algae. 01
- c. Enlist the name of sex hormones in fungi. 01
- d. Fungus is saprophytic in nature. True/False 01
- e. What is biodegradation? 01
- f. Chlorophyceae is also known as green algae. True/False 01
- g. What is mycotoxin? 01

Q-2 Attempt all questions (14)

- a Write an account on asexual, sexual and parasexual reproduction in Fungi. 07
- b Discuss the importance of algae in production of algal product. 07

OR

Q-2 (14)

Explain mutualistic and symbiotic relationship of fungi with plants and animals.

Q-3 Attempt all questions (14)

- a Write a short note on Penicillium 07
- b Write a detail note on physiological specialization in fungi 07

OR

Q-3 Attempt all questions

- a Discuss the life cycle and economic importance of Saccharomyces 07
- b Explain the harmful effect of mycotoxins. 07



SECTION – II

- Q-4** **Attempt the Following questions** **(07)**
- a. What is Phycology? 01
 - b. Toxic secondary metabolite produced by fungus is known as..... 01
 - c. Enlist the types of lichen. 01
 - d. Write the full form of VAM. 01
 - e. Phycobilins are a type of algal pigment. True/False 01
 - f. Define: algalization 01
 - g. Write full form of SCP 01
- Q-5** **Attempt all questions** **(14)**
- a Write detail note on habitat and nutrient condition of algae. 07
 - b Define lichen and also explain various type of lichen with the help labelled diagram. 07
- OR**
- Q-5** **14**
- What is importance and application of fungus.
- Q-6** **Attempt all questions** **(14)**
- a Write a detail note on what is Mycorrhiza and its types. 07
 - b What are biocontrol agents? Explain their role in agriculture. 07
- OR**
- Q-6** **Attempt all Questions** **(14)**
- a Role of fungi in Biodeterioration of wood, paper, textile

