

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2019

Subject Name: Mycology and Phycology

Subject Code: 5SC01MAP1

Semester: 1

Date: 16/03/2019

Branch: M.Sc. (Microbiology)

Time: 02:30 To 05:30

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.
 - b. Fungi producing usually eight spores in a sac like structure belong to ascomycetes. True/False
 - c. All fungi are Heterotrophs. True/False
 - d. Chlorophyceae is also known as green algae. True/False
 - e. Define zoospores.
 - f. A motile flagellated asexual cell is called.....
 - g. Algal cell wall is composed of.....
- Q-2 Attempt all questions (14)**
- (a) Write an account on asexual, sexual and parasexual reproduction in Fungi. (7)
 - (b) Discuss the importance of algae in production of algal pigments. (7)

OR

- Q-2 Attempt all questions (14)**
- (a) Give an account of the somatic structure found in the genera of Acrasiomycetes with suitable diagrams. (7)
 - (b) List any four resemblances and four differences between Homothalium and Heterothalium. (7)
- Q-3 Attempt all questions (14)**
- (a) Write a note on algae in global warming and environmental sustainability. (7)
 - (b) Discuss the role of algae in biofuel production. (7)

OR

- Q-3 (a) Discuss the life cycle and economic importance of Saccharomyces. (7)**
- (b) Define lichen and also explain various type of lichen with the help labelled diagram. (7)**



SECTION – II

- Q-4 Attempt the Following questions (07)**
- a. Fungi can be stained by.....
 - b. Aflatoxin is produced by.....
 - c. Define thalus.
 - d. Define leucoplast.
 - e. Give the examples of accessory pigment in algae.
 - f. The most primitive group of algae
 - g. Zygotic meiosis is a characteristic feature of.....

- Q-5 Attempt all questions (14)**
- (a) Discuss the potential application of lichen in agriculture. (7)
 - (b) Describe the role of algae in hydrogen production. (7)

OR

- Q-5 (a) What do you understand by Eutrophication? Explain its agent with reference to algae. (7)**
- (b) Write a note on mycotoxins. Explain the harmful effect of mycotoxins. (7)**

- Q-6 Attempt all questions (14)**
- (a) Give a brief account of sexual reproduction and basidiocarp formation in higher basidiomycotina. (7)
 - (b) Explain the somatic structure and economic importance of Rhizopus. (7)

OR

- Q-6 Attempt all Questions**
- (a) Explain the biotic interaction between plants and animals. (7)
 - (b) Describe in brief the life cycle and economic importance of penicillium. (7)

