

Enrollment No: _____

Exam Seat No: _____

C. U. SHAH UNIVERSITY

Winter Examination-2021

Subject Name : Environmental Microbiology

Subject Code : 5SC03EMB1

Branch: M.Sc. (Microbiology)

Semester: 3

Date: 14/12/2021

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: Microbial Ecology **01**
- b. Municipal water is treated through the process of _____. **01**
(chlorination/coagulation/filtration)
- c. The study of group of organisms of different species which are associated together as a unit in form of a community known as _____. **01**
(Autecology/Synecology)
- d. Give example of any four microflora of soil. **01**
- e. Define: Rhizosphere **01**
- f. Rehabilitation is 'the process of assisting the recovery of an ecosystem that has been degraded, damaged, or destroyed'. (True/False)? **01**
- g. Define: Microbial Population **01**

Q-2 Attempt all questions (14)

- a. Write brief note on Evolution of life on Earth **(4)**
- b. Write detail note on classification of soil with its properties. **(4)**
- c. Write down detail note on what is Biofilm and stages of biofilm formation with figure **(6)**

OR

Q-2 Attempt all questions (14)

- a. What is Rehabilitation of habitat? Write short note on Rehabilitation of Mangroves. **(7)**
- b. Write detail note on what is Nutrient Dynamics and Spiraling of Nutrient in Lotic System. **(7)**

Q-3 Attempt all questions (14)

- a. What is Biogeochemical cycle? Explain in detail about any two cycles. **(7)**
- b. Write a detail note on Eutrophication and control strategies for eutrophication. **(7)**

OR



