

Enrollment No: _____

Exam Seat No: _____

C. U. SHAH UNIVERSITY

Winter Examination-2022

Subject Name : Environmental Microbiology

Subject Code : 5SC03EMB1

Branch: M.Sc. (Microbiology)

Semester: 3

Date: 22/11/2022

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.
-

SECTION – I

- Q-1 Attempt the Following questions (07)**
- a. Define: Microbial Ecology **01**
 - b. Give name of Cellulase producing organisms. **01**
 - c. What is COD? **01**
 - d. MSW stands for? **01**
 - e. Municipal water is treated through which process ? **01**
 - f. What is Synecology? **01**
 - g. _____ is ‘the process of assisting the recovery of an ecosystem that has been degraded, damaged, or destroyed’. **01**
- Q-2 Attempt all questions (14)**
- a. Write brief note on evolution of life on Earth **(7)**
 - b. Write down detail note on Biofilm . **(7)**
- OR**
- Q-2 (14)**
- What is Biogeochemical cycle? Explain in detail about any two cycles.
- Q-3 Attempt all questions (14)**
- a. Write a detail note on Biofertilizer . **(7)**
 - b. Write a detail note on Microbial interaction. **(7)**
- OR**
- Q-3 Attempt all questions (14)**
- a. Briefly write on Microbial Ecology. **(7)**
 - b. Write detail note on VAM. **(7)**



SECTION – II

- Q-4** **Attempt the Following questions** **(07)**
- a. Write a full form of SCP . **01**
 - b. Which type of microorganisms are used to cellulase production ? **01**
 - c. What is Environmental Microbiology? **01**
 - d. What is disadvantages of chemical fertilizer? **01**
 - e. Give any three Lignin degrading bacteria. **01**
 - f. Enlist the name of Air microflora. **01**
 - g. What is Microbial Diversity? **01**
- Q-5** **Attempt all questions** **(14)**
- a. Write a brief role on biodegradation of Pesticide. **(7)**
 - b. Write detail note on waste water treatment. **(7)**
- OR**
- Q-5** **Write a detail on physical & chemical characteristics of Soils.** **(14)**
- Q-6** **Attempt all questions** **(14)**
- a. Write detail note on Liquid waste treatment . **(7)**
 - b. Write short note on Microbial Diversity **(7)**
- OR**
- Q-6** **Attempt all questions** **(14)**
- a. Write a detail note on Microbial Amylase production **(7)**
 - b. Write a detail note on Eutrophication . **(7)**

