4. Explain the process of mnodule formation by rhizobia in leguminous plants. Also describe the function of 'nod'-genes in this process. 7+7=14

UNIT-III

5. What are biopesticides. Describe the different types of biopesticides in detail. 14

6. Write notes on any two : 7x2=4

   (i) BIS nos of biofertilizers

   (ii) Xanthum gum

   (iii) Method of application of biofertilizers

UNIT-IV

7. Explain the role of microbes in different types of marine environments. 14

8. Write notes on any two : 7x2=14

   (i) Secondary treatment of waste water

   (ii) Eutrophication

   (iii) Pond ecosystem

UNIT-V

9. What are xenobiotic compounds? Explain the degradation of Xenobiotic compounds. 14

10. Write a detail note on Nitrogen cycle with emphasis on different microbial processes involved in it. 14

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PG Even Semester Examination, September, 2023

MICROBIOLOGY

(4th Semester)

Course No: MBCC-401
(Soil and Environmental Microbial)

FM: 70
Pass Marks : 28
Time: 3 Hours

The figures in the right margin indicate full marks for the question
Answer all questions taking one from each unit.

UNIT-I

1. What are the different type of microbes present in atmosphere? Explain the significance of aeromicroflora in clinical infections. 14

2. Write notes on any two of following : 7x2=14

   (i) Phyllosphere

   (ii) Droplet nuclei

   (iii) Assessment of air quality

UNIT-II

3. Describe the different types of positive interactions of microorganisms. Justify the description with help of suitable example. 14