2023

4th Semester Examination MICROBIOLOGY (Honours)

Paper: C 9-T

[Environmental Microbiology] [CBCS]

Full Marks: 40 Time: Two Hours

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

Group - A

	Answer any <i>five</i> questions. 23	×5=10
1.	What is lentic ecosystem?	2
2.	What is meant by Piezophiles?	2
3.	State the microbial interaction of commensalism.	2
4.	State the symbiotic relationship between a plant microbe.	and a
5.	What is ammonification?	2
6.	Mention the name of two oil-consuming bacteria.	2
7.	What is Trickling Filter?	2
		P.T.O.

	(2)	
8.	Mention the basic tests used for the detection of coliform bacteria in water.	
	Group - B	
	Answer any <i>four</i> questions. 5×4=20	
9.	Write a short note on microbial adaptation in marine environment.	
10.	Discuss about the decomposition of plant organic matter	
11.	Write short note on role of microorganisms in Nitroger Cycle.	
12.	Write short note on: parasitism, chitin degradation. 21/2+21/2	
3.	Discuss briefly about microbial biodegradation of pesticides.	
4.	How BOD is related with water quality? Write the differences between BOD and COD. 2½+2½	
	Group - C	

Answer any one question. $10 \times 1 = 10$

15. Discuss in detail about municipal wastewater treatment. What is potability of water? How it is determined?

6+2+2

16. Discuss in detail about composting and sanitary landfill technique for solid waste disposal.