JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST **.1**EXAMINATIONS- 2024

M.Sc.-II Semester (Biotechnology)

COURSE CODE (CREDITS): 20MSWBT232 (02)

MAX. MARKS: 15

COURSE NAME: Environmental Biotechnology

COURSE INSTRUCTORS: Ashok Kumar Nadda

MAX. TIME: 1 Hour

Note: (a) All questions are compulsory.

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

Q.No	Question	Marks
		Mark
	Section I	
Q1	(a) What are the differences between methanogens and methylotrophs? Give	
		1
	(b) What qualifies as hazardous waste, and how is it classified?	1
	(c) How can you reduce the households waste and manage down at	
		1
	(d) What are the challenges of plastic and e-waste disposal from households?	1
	(c) now does environmental biotechnology promote renewable environmental biotechnology promote renewable environmental	
	and sustainability?	1
	Section II	
00		
Q2 Q3	How do bacteria and fungi contribute to carbon sequestration in soil? What is the	1.5
	1 - 2 2 2 monunogomo nacicità in the carnon ovolo?	1.0
Q 3	What is nitrification, and which microbes are involved? How do denitrifying	1.5
Q 4	L sweet a mpace annospheric minopen leveled	1.0
7	What nutrients and environmental conditions are optimized in biostimulation? What is biogrammentation and when is it and the state of t	2.0
	is bioaugmentation, and when is it used in bioremediation?	
	Section III	
) 5	What is the role of phosphato solubilities to the role of the role o	
	What is the role of phosphate-solubilizing bacteria in making phosphorus bioavailable to plants? How do sulfur-reducing bacteria contribute to sulfur cycling?	2.5
Q 6	What factors affect the success of bioremediation? How do microbes break down	
	pollutants in bioremediation? What are the various types of phytoremediation?	2.5
	rate the various types of phytoremediation?	
	Total marks	15