



BRAINWARE UNIVERSITY

Term End Examination 2024-2025 Programme - B.Sc.(BT)-Hons-2022 Course Name - Environmental Biotechnology Course Code - BBTD504B (Semester V)

Full Marks: 60

Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

Choose the correct alternative from the following:

- (i) Conventional sources of energy are
 - a) Coal
 - c) Natural Gas
- (ii) The term MSW means
 - a) Municipal Solid Waste
 - c) Municipal Salient Waste

- b) Petroleum
- d) All of these
- b) Manual Solid Waste
- d) Municipal Sewage waste
- (iii) The process of burning waste in large furnaces at high temperature is know as
 - a) Burial
 - c) Flamation

- b) Incineration
- d) All of these

- (iv) Types of bioremediation are
 - a) In-situ bioremediation
 - c) Both a and b
- (v) Bioremediation of oil spills can be done by
 - a) Bioaugmentation
 - c) Both a and b
- (vi) Oil-degrading bacteria are
 - a) Flavobacterium
 - c) Pseudomonas
- (vii) Smog is combination of
 - a) Smoke and snow
 - c) Smoke and fog
- (viii) Most common heavy metals are

- b) Ex-situ bioremediation
- d) None of these
- b) Biostimulation
- d) None of these
- b) Cytophoga
- d) All of these
- b) Snow and fog
- d) All of these

LIBRARY Brainware University

	a) Lead(Pb) Barasat, Kokata -700125	b) mercury(Hg)	
	c) cadmium(Cd)	d) All of these	
(ix)	Which of the following is not biodegradable		
	a) Polythene	b) Cotton	
	c) Vegetable waste	d) Wood	
(X)	Which of the following is biodegradable?		
	a) Paper c) Plastic	b) D.D.T d) Aluminium	
(xi) Choose among the following that Loss of water content through the plants into the			
(,,,,	atmosphere is called :	American Marie Mariet	
	a) Evaporation	b) Vaporization	
	c) Hydraulic cycle	d) Transpiration	
(xii) Choose among the following that Which is the most abundant greenhouse gas in the atmosphere?			
	a) Carbon dioxide	b) Water vapour	
	c) Methane	d) Nitrogen	
(xiii) Identify that A process in which microbes to convert toxic industrial wastes to less toxic or non-toxic compounds is			
	a) Precipitation	b) Complement fixation	
	c) Bioconversion	d) Bioremediation	
(xiv)	Choose the correct answer for the blank :	is NOT a primary pollutant.	
	a) Oxygen	b) Ground-level ozone	
	c) Carbon monoxide	d) Carbon dioxide	
(XV)	Choose the correct answer for the blank :	process earthworms	
	decompose biodegradable solid waste.	h) I and fills	
	a) Composting c) Shredding	b) Land fills d) Vermi-composting	
	c) silledding	a) vermi composting	
Group-B			
(Short Answer Type Questions)			3 x 5=15
			39
2. Illustrate on vesicular Arbuscular mycorrhiza (VAM).			(3)
3. Describe the process of gold and silver leaching.			(3)
4. Explain the term bioaugmentation with examples.			(3)
5. Identify two importance of phytoremediation, and state one important limitation?6. Propose the environmental benefits of GM crop.			(3)
0. F	O	R Management used to the second to the secon	
Е	stimate the reaction conditions for uranium leach		(3)
		we employed new playages in multiplesson	
	Grou		aid in
	(Long Answer T	ype Questions)	5 x 6=30
7.	7. Summarize the mechanism of action of biodegradation of pesticide DDT and lindane.		
8. Evaluate the different benefits of GM crops.			(5) (5)
9. Establish the different methods of ex-situ bioremediation.			(5)
10. Explain solid waste management execution processes.			(5)
11. Explain the process of solid waste composting. 12. List the different regulating authorities for GMOs.			(5) (5)
1/	LIST THE UNIFICE REPUIATING AUTHORITIES FOR GIVILIS.		(3)

(5)

Brainware University
Barasat, Kokata -700125