



BRAINWARE UNIVERSITY

Term End Examination 2024-2025
Programme – B.Tech.(CE)]-2021

Library
Brainware University
398, Ramkrishnapur Road, Barasal
Kolkata, West Bengal-700125

Course Name – Industrial Waste Management Course Code - OEC-CE801A

(Semester VIII)

Full Marks : 60	and the trap through the first property and the contract of th	
tine figure in the margin indicates full marks. Ca	Time: 2:30 Hours ndidates are required to give their answers in their are as practicable 1	
own words as f	ar as practicable.]	
Gro	oup-A	
	Type Ouestian)	
(i) Identify the major source of industrial pollution.		
 a) Residential waste c) Industrial discharge (ii) Identify the most common type of industrial 	b) Agricultural runoff	
a) Air pollutionc) Land pollution(iii) Identify the main goal of cleaner production.	b) Noise pollution d) All of these	
a) Reduce pollutionc) Promote fossil fuel usage(iv) Identify the first step in a waste management	b) Increase waste production d) Increase material wastage approach.	
a) Waste Auditc) Landfilling(v) Identify the main characteristic of hazardous	b) Waste Disposal d) Incineration	
a) Biodegradablec) Corrosive(vi) Select the most effective method for treating	b) Non-toxic d) Odorless highly toxic hazardous waste.	
a) Compostingc) Open dumping(vii) Select the method used to stabilize hazardou	b) Incineration d) Land application s waste chemically.	
a) Open dumpingc) Solidification(viii) Select the best material for preventing hazar	b) Secure landfillingd) Recyclingdous waste leakage in landfills.	
a) Clayc) Wood chips(ix) Select the hazardous waste management tec	b) Plastic liners d) Sand chnique that reduces environmental	

impact.

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(x)	a) Open burning c) Illegal dumping Select the correct treatment method used for c		
	a) Precipitation c) Ion exchange Choose the primary reason for using neutralizate	b) Adsorption d) All of the above	
	a) To remove heavy metalsc) To kill bacteriaChoose the best method for treating toxic indus	b) To adjust pHd) To remove suspended solids	
(xiii	a) Biodegradationc) Neutralization) Choose the treatment used for oily wastewater	b) Chemical oxidationd) Precipitationfrom industries.	
(xiv	a) Dissolved air flotationc) ChlorinationChoose the best method for dewatering sludge.	b) Filtration d) Neutralization	
(xv)	 a) Centrifugation c) Ion exchange Choose the best method for combined treatments wastewater. 	b) Filtration d) Adsorption nt of industrial and municipal	
	a) Trickling filter c) Neutralization	b) Activated sludge processd) Reverse osmosis	
	Grou (Short Answer Ty		3 x 5=15
 Define industrial pollution and its sources. Explain the role of process modification in reducing industrial waste. Classify different types of hazardous wastes. Define industrial pollution and its major sources. Distinguish between equalization and neutralization in industrial wastewater treatment. OR		(3) (3) (3) (3) (3)	
Jı	ustify the importance of residue management in i		(3)
	Grou (Long Answer Ty		5 x 6=30
8. 9. 10. 11.	 Classify different types of waste generated in industries. Describe the role of environmental legislations in controlling industrial pollution. Explain the role of bioassay studies in environmental monitoring. Differentiate between short-term and long-term hazardous waste storage methods. Distinguish between residue management and disposal techniques. Compare the treatment flowsheets of sugar and dairy industries. OR		(5) (5) (5) (5) (5) (5)
	Compare the environmental impact of untreated ndustries.		(5)
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