Hall Ticket No Question Paper Code: ACE526



## INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

B.Tech VI Semester End Examinations (Regular), November – 2020

Regulation: IARE-R16

## INDUSTRIAL WASTE WATER TREATMENT

Time: 2 Hours (CE) Max Marks: 70

Answer any Four Questions from Part A Answer any Five Questions from Part B

Answer any Five Questions from Part B		
$\mathbf{PART}-\mathbf{A}$		
1.	How will you classify the industries on the basis of characteristic strength of wastewaters?	[5M]
2.	Write short notes on aerobic and anaerobic digestion.	[5M]
3.	Differentiate between nitrification and denitrification processes.	[5M]
4.	Explain the sources of oil refinery waste and the recommended process for their treatment.	[5M]
5.	Explain treatment of textile mill's raw effluent.	[5M]
6.	Briefly discuss the effect of industrial wastes on streams.	[5M]
7.	Explain about the terms equalisation and neutralisation.	[5M]
8.	Describe process of electrodialysis.	[5M]
PART - B		
9.	What are the chemical and biological characteristics of industrial waste?	[10M]
10.	Explain the difference between industrial waste & municipal waste water.	[10M]
11.	Explain the process of proportioning in industrial wastewater treatment.	[10M]
12.	Describe how strength reduction of waste can be achieved in industries.	[10M]
13.	Explain the advanced wastewater treatment for removal of heavy metals.	[10M]
14.	List the different settling zones of sedimentation with neat sketches.	[10M]
15.	Explain the sources of steel industry waste and the recommended process for their treatment.	[10M]
16.	What are the major chemical constituents in wastewater obtained from sugar industry? Enlist the	
	treatment technologies to remove the contaminants.	[10M]
17.	What are the advantages of combined treatment of industrial waste water with domestic waste water?	[10M]
18.	Draw a typical tannery effluent treatment process flow sheet and briefly describe the treatment process.	[10M]



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