- 8. (a) Give the characteristics of wastewater from Fertilizer industry. How do you treat the wastewater?
 - (b) Discuss, how to handle and dispose off the radioactive waste? 10

No. of Printed Pages: 04 Roll No.

789

B.Tech. EXAMINATION, May 2017

(Seventh Semester)

(Old Scheme) (Re-appear Only)

(CE)

CE-461

INDUSTRIAL WASTE MANAGEMENT

Time: 3 Hours] [Maximum Marks: 100

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note: Attempt any *Five* questions. All questions carry equal marks.

M-789 4 250 (3-32/11)M-789 P.T.O.

1.	(a)	Calculate the population equivalent of a	4.	Writ	te short notes on the following: 10,10
		city, given:		(a)	Ozonation
		(i) Average waste from the Industry is $95 \times 10^6 \text{ 1/d}$		(b)	Ion-exchange.
	(b)	(ii) The average 5 day BOD is 300 mg/l. 5 What the effects of disposing IWW on land, stream and air ? 5,5,5	5.	(a) (b)	Why dewatering of sludge is necessary? Why elutriation is necessary before chemical conditioning? Explain briefly various methods of final disposal of sludge. 10
2.		are these operations useful pretreatment wastewater, discuss with nple: 10,10 Reduction of waste discharge Recovery of by-products within treatment	6.	Desc (a) (b) (c)	cribe the following for Textile Industry: Manufacturing Process Flowchart Wastewaster characteristics. 20
3.	(a)	plant. Discuss in brief various treatment process	7.	(a)	Outline the process available for treating liquid waste from a chemical industry.
	(u)	adopted for treating Industrial wastewater.		(b)	Give the composition of petroleum
	(b)	Explain the mechanism involved in Oil separation from industrial wastewater? 10			refining waste. Explain, with the help of flow diagram how its wastewater is treated? 10
M-789		2	(3-3	2/12) M	-789 3 P.T.O.