B. Tech. Sem - VIII (Chemical Engg.) (2014 COURSE) (CBCS) : SUMMER - 2019

SUBJECT-ELECTIVE-IV HAZARDOUS WASTE MANAGEMENT

Day: Date:	Thur 23/0	sday 5/2019 S-2019-2867		Time: 02.30 PM TO 05	
N.B.:					
	1)	All questions are COMPULSORY .			
	2)	Figures to the right indicate FULL marks.			
	3)	Assume suitable data, if necessary.			
Q.1	a)	What are the rules for hazardous waste handling?		(05)	
	b)	What are the rules for rejected plastic usage?		(05)	
		OR			
Q.1	a)	What are the rules for fly ash?		(05)	
Ų.1	<i>a,</i>	what are the raies for my asir.		(03)	
	b)	What are rules for biomedical waste handling?		(05)	
Q.2		What is fate of hazardous chemicals? How it is designificance?	etermined? What is its	(10)	
		OR			
0.2		What are the issues and health effects during transp	portation of chemicals?	(10)	
Q.2		What are the rules governing the same?	ortation of chemicals:	(10)	
Q.3		Which are the sources of radioactive wastes? How	do vou measure their	(10)	
Ų.S		radioactivity? Which are their Health hazards?	do you measure men	(10)	
		OR			
~ 2		Herry register is compared from mysleer maryon	nlanta? What are its	(10)	
Q.3		How waste is generated from nuclear power power scharacteristics? Which are its disposal methods?	piants? what are its	(10)	
Q.4		What is soil-vapor extraction? How it is used for waste	e reduction?	(10)	
		OR			
Q.4		What is ground water contamination? How it take	es place? What are its	(10)	
~··		effects and remedies?	r r	()	
Q.5	a)	What is slurry phase bioreactor? What is its significan	ce in bio composting?	(05)	
	b)	What is in-situ remediation? Why it is important?		(05)	
	,	OR		,	
Q.5		Which are oxidative and reductive methods for codetails.	omposting? Explain in	(10)	
Q.6		What is land fill? Why proper design is necessary covers and cover design for land fill?	? How to incorporate	(10)	
		OR			
Q.6		Why leachate is important in hazardous waste dimethods of leachate collection and removal?	sposal? What are the	(10)	

* * * *