Total No.	of Questions	:	4]
-----------	--------------	---	----

-	_	_	
Ρ	R	U) 5	
			,

SEAT No.:		
[Total	No. of Pages:	1

[6269] 309

## T.E. (Civil Engg.) (Insem) SOLID WASTE MANAGEMENT

(2019 Pattern) (Semester - II) (Elective - II) (301015f)

Time : 1	Hour] [Max. Marl	ks:30
Instruct	ions to the cardidates:	
1)	Answer Q.1 or Q.2 and Q.3 or Q.4.	
2)	Figures to the right indicate full marks.	
3)	Draw neat figures wherever necessary.	
4)	Assume suitable data, if necessary.	
5)	Use of scientific calculator is allowed.	
<b>Q1)</b> a)	What are the sources and types of solid waste?	[5]
b)	Explain the functional elements of solid wastes management.	[5]
c)	Write a short note on: Sustainable solid waste management for s	smart
	cities.	[5]
	OR O	
<b>Q2)</b> a)	What are regulations of SWM in developed countries?	[5]
b)	List chemical characteristics of solid waste. Explain one of them.	[5]
c)	What is the role of urban local bodies in waste management?	[5]
,	\$\frac{1}{2}\frac{1}{2	
	0.20.	
<b>Q3)</b> a)	What is role of Swachhta & rural engagement cell (SESREC)?	[5]
b)	Discuss optimization of collection routes in SWM.	[5]
c)	Explain waste collection services in detail.	[5]
,	OR OF	
	OK ,	
<b>Q4)</b> a)	Explain any one success story of SWM from India.	[5]
b)	What are the criteria considered while selection of location of tra	nsfer
ĺ	station?	[5]
	Have to use of madic fragments identification (DED)/-1-1-1-1-1	
c)		_
	system (GPS) for tracking vehicles location?	[5]
	V 7	

