<b>Total No. of Questions : 4]</b>	

SEAT No. :	
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PA-10039

[Total No. of Pages: 1

		T.E. (Civil) (Insem)			
SOLID WASTE MANAGEMENT					
(2019 Pattern) (Semester - II) (Elective - II) (301015F)					
Time	:1 H	Hour] [Max. Marks	: 30		
Instru	ıctior	ns to the candidates:	)		
	<i>1</i> )	Attempt Q.1 or Q.2 and Q.3 or Q.4.			
	<i>2</i> )	Figures to the right indicate full marks.			
	<i>3</i> )	Draw neat figures wherever necessary.			
	<i>4</i> )	Assume necessary data.			
	5)	Use of scientific calculator is allowed.			
Q1)	a)	Define solid waste and explain functional elements of SWM.	[5]		
	b)	Explain proximate and ultimate analysis.	[5]		
	c)	What are the factors affecting generation rate of solid waste?	[5]		
	ĺ	OR			
<b>Q</b> 2)	a)	What is the functional outline of SWM?	[5]		
~	b)	Explain role of urban local bodies in solid waste management.	[5]		
		_			
	c)	Write short note on: Sustainable solid waste management for smart cities	s.[ <b>5</b> ]		
Q3)	a)	List out the factors to be considered while deciding collection efficie			
		in a SWM system.	<sup>4</sup> [5]		
	b)	What are the different factors that must be considered in the desig	n of		
		transfer station?	[5]		
	c)	How to do optimization of route during transportation of Solid Waste	<b>?[5]</b>		
		OR			
04)	a)	List out the factors to be considered in selecting solid waste collections.	tion		
E		equipment?	[5]		
	b)	What is the necessary of transfer station?	[5]		
	Ĺ	What is role of Swachhta & rural engagement cell (SESREC)?			
	c)	What is fole of Swacilita & fural engagement den (SESKEC):	[5]		
		26.			
		S. A. C.			
		S)			
		D. De.			

