

Internal Assessment Test - I

Sub:	SOLID WASTE MANAGEMENT						Code:	15CV651		
Date:	14/03/2018	Duration:	90 mins	Max Marks:	50	Sem:	VI	Branch:	CIVIL	
Answer Any FIVE FULL Questions										
								Marks	OBE	
									CO	RBT
1	Explain different sources and types of municipal solid waste.						[10]	CO1	L2	
2	Describe different design components which are to be considered for aerobic composting.						[10]	CO3	L2	
3	Explain with the aid of neat sketches, hauled container system and stationary container system						[10]	CO2	L2	
4	Determine landfill area required for a municipality with a population 50000, given that.						[10]	CO3	L2	
		i)	Solid waste generation = 360gms/person/day.							
		ii)	Compacted density of landfill = 504kg/m ³							
		iii)	Average depth of compacted solid waste = 3m							

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5	<p>An area consisting of 4000 houses contributes solid waste. Estimate the solid waste generation rate, if the observation is a local transfer station and period of generation is one week. The waste is carried out in two types of vehicles viz, compactor trucks and flat bed trucks. Also estimate the unit waste generation rate.</p> <p>Number of compactor truck load – 12 ; No. of flat bed truck load – 10 Volume of each compactor truck – 16m³ ; Volume of each flat bed truck – 2.5m³ Density of waste of compactor truck – 300 kg/m³ ; Density of waste of flat bed truck = 150 kg/m³ ; Number of persons in each house – 5</p>	[10]	CO2	L2
6	<p>Explain the various factors to be considered in the selection of a site for a sanitary land fill</p>	[10]	CO3	L2

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