## M.E. Fourth Semester (Civil (Environmental Engineering)) (CBS)

## 13404 : Environmental Sanitation & Solid Waste Management : 4 SCEE 2

P. Pages: 1 AU - 3219

Time: Three Hours Max. Marks: 80

	Not	<ol> <li>Answer three question from Section A and three question from Section B.</li> <li>Assume suitable data wherever necessary.</li> <li>Illustrate your answer necessary with the help of neat sketches.</li> <li>Use of pen Blue/Black ink/refill only for writing the answer book.</li> </ol>	
SECTION – A			
1.		Explain in detail with the help of neat sketches:- a) Aqua privy. b) Bore hole privy.	14
2.		Describe the life cycle of the mosquito parasite responsible for the malaria diseases.	13
3.		Write in detailed about swimming pool safety provision and chemical & physical quality & standards.	13
4.		Explain the essential aspects to sanitation of hospital.	13
5.		Write in brief about the following.	
		a) Communicable Diseases & Epidemic.	4
		b) Importance of Environmental sanitation.	5
		c) Causes of food poisoning.	5
		SECTION – B	
6.		Write in detailed about characteristics of solid waste which related to physical, chemical and biological analysis.	14
7.	a)	What are the sources and locations of solid waste generation.	6
	b)	Discuss the functional elements of solid waste management.	7
8.	a)	Distinguish between density and magnetic separation.	
	b)	Explain various factors affecting for composting process.	
9.		The following average speeds were obtained for various round trip distances to a disposal site find haul speed constants 'a' and 'b' and round trip haul time for a sit located 14km away.  Round trip distance (x) km/trip 3 5 9 12 16 20 25  Avg. haul speed (y) km/hr. 18 28 32 36 40 42 46	13
10.		Explain Mechanical method of composting. Draw the flow chart.	14

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