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SEAT No.____

SARDAR PATEL UNIVERSITY VALLABH VIDYANAGAR B. Sc. SIXTH SEMESTER EXAMINATION

2019

FRIDAY 29th MARCH

10:00 am TO 01:00 pm

USO6CENV 03

(Waste Management)

TOTAL MARKS 70

Note: 1. Answers of all the questions (including multiple choice questions) should be written in the provided answer sheet

2. Draw neat and labeled diagram wherever necessary

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Q1 Answer the followir	ig multiple choice que	estions	(10)
1. In development of CE (a) 25	(b) 30	(c) 35	l subsidy (d) 40
 Disinfection is mainly (a) Tertiary (b Paper, Cardboard, Pla are type of wa) Secondary stics, Textiles, Leather:	(c) Primary	
(a) Noncombustible rubb	oish	(b) Combustible ru	ıbbish
(c) Special waste		(d) Demolition wa	ste
4 is determined	using bomb calorimete	er ·	
(a) Density (1	o) Bulk density	(c) Calorific value	(d) Moisture content
5 has 100%			
(a) Glass	(b) Plastic	(c) Paper	(d) Cardboard
6. Untreated biomedical	waste can be stored fo	r not more than	_ hours
(a) 24	(b) 36	(c) 48	(d) 72
7 is not a type of	of major source of haza	rdous waste	
(a) Generator	(b) Treaters	(c) Traders	(d) Disposers
8. Circulating Fluid Bed	Incineration has temperated	erature range between _	° F
(a) 1200 to 1400		(c) 1600 to 1800	
9. In pulp and paper ind (a) Jordan	ustry fibers are partiall (b) Beater	y dewatered in cylindric (c) Screed	al screen called (d) Decker
10 is the single	most costly step in con	nverting cotton fibers to	yarn
(a) Weaving	(b) Spinning	(c) Drawing	(d) None of these
			(P.T.O.)

Q2. Answer the following questions. (Any ten)		
1. Enlist the waste water treatment processes		
2. How flocculation is used as physical treatment?		
3. Write about conducting a waste inventory as technological aspect of CETP		
4. What are hazardous wastes?		
5. Enlist the sources of special wastes in municipal solid waste stream		
6. Write in brief about landfilling		
7. Define biomedical waste		
8. Enlist the sources of biomedical waste		
9. Write about Bubbling Fluidized Bed Incineration		
10. Explain Kraft's process		
11. Enlist the pollutants released from textile mill		
12. What are the sources of waste from sugar industry?		
Q3. With a schematic diagram explain the treatment process of waste water	(10)	
OR	(4.0)	
Q3. Give a detailed account of CETP	(10)	
Q4. Write note on:		
(a) Recycling of paper and plastic	(07)	
(b) Types of collection systems for solid waste	(03)	
OR		
Q4. Write note on:		
(a) Transfer stations and different methods to transport solid waste	(06)	
(b) On site handling of solid waste	(04)	
Q.5. (a) Give an account of categories of biomedical waste according to Schedule 1		
(b) Discuss the colour coding and type of container for disposal of biomedical waste	(03)	
OR		
Q.5. (a) Discuss major sources of hazardous waste	(06)	
(b) Enlist the characteristics of hazardous substances	(04)	
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Q.6. (a) Explain the process of manufacturing and waste treatment in paper and pulp industry	(07)	
(b) Enlist the sources of waste from Tanning industry	(03)	
OR		
Q.6. (a) Give a detailed account of Dairy processing activities		
(b) Explain the picking method in textile industry	(03)	