(40 & A-20) SEAT NO.____

No. of Printed Pages: 2

SARDAR PATEL UNIVERSITY

B. Sc. SIXTH SEMESTER EXAMINATION

2017

FRIDAY 31st MARCH

10:00am to 01:00 pm

USO6CENV 03

(Waste Management)

		9	
WIILLE	rs of all the questions (include in in the provided answer shee neat and labeled diagram who	ling multiple choice of	OTAL MARKS 70 questions) should be
	following multiple choice q		(10)
1. BOD is a	characteristic of water	uostions	(10)
(a) Organic	(b) Heavy metal	(c) Inorganic	(d) Hazardous
2. pH is a	character of water		
(a) Chemical	(b) Physical	(c) Biological	(d) Hazardone
o. I manorany, st	ate government can give	% subsidy of the	total cost for waste
water project			
(a) 35	(b) 45 ces of are garbage, co	(c) 25	(d) 55
4. Principal source	ces of are garbage, co	oking oils and fats	、
(a) Macaran Mocre	(b) Carbonydrates	(c) Proteins	(d) Linida
of solid weight or dry	waste is usually expressed as	mass of moisture pe	r unit mass of
(a) Moisture cont	tent (b) Volume	(c) Particle size	(d) Density
6. Untreated bion	nedical waste can be stored for	or not more than	hourg
(a) $2+$	(0) 48	(c) 36	(d) 72
7. Hazardous was	ste contains alcohol by volum	e more than %	, ,
(a) 10	(b) 18	(c) 24	(d) 20
8 is the pranother	ocess of transfer of a yarn or	thread from one type	of package to
(a) Winding	(b) Weaving	(c) Slashing	(d) Coopering
9 breaks u	p and disperses milk fat throu	ighout the milk to pro	event cream from
(a) Mixing	(b) Homogenization	(c) Stirring	(d) none of the
10. process	s is carried out in the furnace	with the addition of a	(u) none of these
in pulp and pa	per industry	with the addition of s	odium suipnate
(a) Pyrolysis	(b) Heating	(c) Incineration	(d) Boiling
			(PITO)

Q2. Answer the following questions. (Any ten)	(20)		
1. Discuss the main objectives of CETP	(20)		
2. Explain in brief primary treatment for waste water			
3. Write about activated sludge process?			
4. What are industrial wastes?			
5. Define: recycling			
6. Write in brief about landfilling			
7. Define biomedical waste			
8. What is incineration?			
9. Write note on reactivity as a characteristic of hazardous waste			
10. Enlist the sources of wastes from diary industry			
11. Explain chemical recovery of Kraft process			
12. Name the wet operations of textile industry			
Q3. (a) Explain the chemical treatment for waste water	(06)		
(b) Write note on full public ownership			
OR	(04)		
Q3. Give a detailed note on various processes of CETP with flow diagram	(4.0)		
Q4. Write note on:	(10)		
(a) Recycling of paper (b) On gits have the control of the contro	(06)		
(b) On site handling of solid waste	(04)		
OR Q4. Write note on:			
(a) Transfer stations and different methods to transport solid waste			
(b) Types of collection systems for solid waste			
Q5. (a) Give an account of categories of biomedical waste according to	(06)		
Schedule 1			
(b) Discuss the colour coding and type of container for disposal of	(04)		
biomedical waste			
OR			
Q5. (a) Explain the various characteristics of hazardous waste			
(b) Describe Bubbling Fluidized Bed Incineration to treat hazardous waste			
	(05)		
	(05)		
Pharmaceutical waste water	or (05)		
 (b) Describe Bubbling Fluidized Bed Incineration to treat hazardous was Q6. (a) Draw a simplified flow diagram of Kraft Pulp and Paper mill (b) Explain in detail dry operations of textile industry OR Q6. (a) Discuss leather production (b) Explain in detail Physical, Chemical and Biological treatments used for the policy of the production of th	(05) (05) (05)		

ALL THE BEST