GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VII • EXAMINATION – SUMMER • 2015

	Subject code: 171405Date: 06Subject Name: Byproduct Utilization & ManagementTotal MaTime: 02.30pm-05.00pmTotal Ma						
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Inst		ions:					
	1. 2.		npt all questions. e suitable assumptions wherever necessary.				
	3.	Figur	es to the right indicate full marks.				
Q1	А	What is waste management? Discuss rotary drum screen					
		rr	nethod in detail.		(07)		
	Β.	D	iscuss fermentation technology of waste utili	zation	(07)		
Q2	А	D	escribe effluent treatment plant with various co	mponents	(07)		
	В	E	xplain flow equalization process in detail		(07)		
			OR				
	Β.	D	iscuss secondary treatment methods		(07)		
Q3	A.	D	escribe oxygen sag curve		(04)		
	Β.	Answer the following (Any Five)			(10)		
		i.	What is waste water?				
		ii.	How will your measure discharge of water?)			
		iii.	What is single cell protein?				
		iv.	Explain carbon credit				
		۷.	Explain need of treating waste water?				
		vi.	What is biogas plant?				
			OR				
Q3	А	E	xplain by product utilization of less known fru	uits	(07)		
	В	D	iscuss activated sludge process		(07)		

Q4	А	Define / explain following terms (Any Four)	(04)
	i)	BOD	
	ii)	Air pollution	
	iii)	Cider	
	iv)	Effluent	
	v)	Food waste	
	В	Legal requirement for handling of food waste	(05)
	C.	Discuss waste from fruits and vegetable industries	(05)
		OR	
Q4	А	Discuss aerobic and anaerobic methods of effluent treat	tment (07)
	В	Explain standard for disposal of industrial waste	(03)
	С	Explain BOD reduction of wastewater	(04)
Q5	А	Write short notes (Any Two)	(08)
	i)	Solid waste disposal	
	ii)	Types of waste from food	
	iii)	Industrial sedimentation process.	
	В	Describe natural colour extraction and use of mango wa	ste (06)
		OR	
Q5	А	Explain primary treatments in detail	(05)
	В	Discuss byproducts from dairy waste	(05)
	C.	Discuss impact of organic pollution on stream water	(04)
		quality	
