Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

DIPLOMA ENGG.- VIth SEMESTER–EXAMINATION – MAY/JUNE- 2012

Subject code: 360607/2360607 **Date: 30/05/2012**

Subject Name: Environment Engineering

Time: 10:30 am – 01:00 pm **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**
4. **English version is considered to be Authentic**

Q.1	(a)	Mention the various impurities in water which should be taken in to account in deciding the potability of water.	**07**
	(b)	Draw a neat sketch for sewage treatment showing the location and functions in sewage treatment.	**07**
Q.2			
	(a)	Write a Short note (Any TWO) 1. Solid waste management 2. Grit removal 3. Desalination	**07**
	(b)	Explain principal and purpose of coagulant in purification of water.	**07**
		OR	
	(b)	State classification of solid waste.	**07**
Q.3			
	(a)	Explain theory of sedimentation.	**07**
	(b)	Discuss dewatering and state common method.	**07**
		OR	
Q.3	(a)	Define :- 1. Aeration 2. Elluration	**07**
	(b)	Discuss the chemical precipitation.	**07**
Q.4			
	(a)	Explain clarifocculator and its advantages.	**07**
	(b)	Discuss the theory of filteration.	**07**
		OR	
Q. 4	(a)	State various steps involved in purification.	**07**
	(b)	Explain disposal of sludge.	**07**
Q.5			
	(a)	Write short note of refuse.	**07**
	(b)	Discuss sludge digestion.	**07**
		OR	
Q.5	(a)	Explain with neat sketch working of imhoff tank.	**07**
	(b)	Discuss why coagulants are added and state devices for adding coagulant in water treatment.	**07**

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