Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER- V • EXAMINATION – WINTER 2016

Subject Code: 150603 Subject Name: Environmental Engineering			Date: 19/11/2016	
Ti	me: 1 tructio	10:30AM – 01:00PM Total Marks: ons: Attempt all questions.	70	
		Figures to the right indicate full marks.		
Q.1	(a) (b)	Explain the growth process of bacteria based upon number. Enlist and explain physical characteristics of wastewater	07 07	
Q.2	(a) (b)	Enlist different methods of population forecasting. Explain any four in detail. Enumerate different sources of water. Explain surface water source in detail	07 07	
	(b)	OR Derive the first stage equation of BOD	07	
Q.3	(a)	Explain the different factors affecting the self purification capacity of the stream.	07	
	(b)	Give the classification of bacteria which are important to an environmental engineer	07	
0.3	(-)	OR	05	
Q.3	(a) (b)	Explain different systems of plumbing used for house drainage system Explain mechanical composting as a method for solid waste disposal.	07 07	
Q.4	(a) (b)	Give the classification of traps used in house drainage system. Give the chemical and physical characteristics of solid waste. OR	07 07	
Q.4	(a)	Enlist different equipments used to control particulate matter. Explain working of any one with neat sketch.	07	
	(b)	Explain the different sources of noise pollution.	07	
Q.5	(a) (b)	Write a short on EIA. Explain the effect of air pollution on building material and climate.	07 07	
	(D)	OR	U/	
Q.5	(a) (b)	Explain different factors affecting the rate of water demand. Write short on different types of pipes used in house drainage system.	07 07	
