Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-V • EXAMINATION – WINTER • 2014

Subject Code: 153701 Subject Name: Biodegradation and Bioremediation			Date: 26-11-2014	
Tiı	me: 1 truction 1	10.30 am - 01.00 pm	Total Marks: 70	
	3	. Figures to the right indicate full marks.		
Q.1	(a)	Explain natural attenuation in bioremediation.		07
	(b)	Write a note on bioremediation and discuss its constraint	s and priorities.	07
Q.2	(a)	Explain the method of treatment cotton textile mill wastes with the help of flow sheets.		07
	(b)	Explain the pathway of genetic engineering of biodegrad OR	ation.	07
	(b)	Explain the trickling filter towers.		07
Q.3	(a) (b)	Explain the bacterial examination of water for portability Explain details about bioaugmentation and biostimulation. OR		07 07
Q.3	(a) (b)	Explain the oxidation pond in detail. Explain the process of removal of heavy metals from wastes water.		07 07
Q.4	(a) (b)	What is the effect of chemical structure on biodegradation Define in detail the cometabolism and biotransformation. OR		07 07
Q.4	(a) (b)	Explain the Biosparging process in Bioremediation Explain in detail about Phytoremediation.		07 07
Q.5	(a) (b)	Explain the biological control of air pollution. Explain the biological treatment of waste water. OR		07 07
Q.5	(a) (b)	What are the advantages and disadvantages of Bioremed Explain detoxification activation in biodegradation.	iation?	07 07
