Seat No.:	Enrolment No.

Subject Code: 153701

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION – SUMMER • 2015

Date: 02/05/2015

Tiı	_	Name: Biodegradation and Bioremediation 2.30pm-05.00pm Total Mark ons:	s: 70
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Q.1	(a) (b)	What are the advantages and disadvantages of Bioremediation Explain the process of removal of heavy metals from wastes water	07 07
Q.2	(a) (b)	Write down the types of bioremediation What is the process involve in the sludge treatment explain in detail	07 07
	(b)	OR Draw a flow sheet for treatment of distillery wastes	07
Q.3	(a) (b)	Define the Environment biotechnology and discuss its various applications Write a note on construction of RBC and its treatment process OR	07 07
Q.3	(a) (b)	What is the process of treatment and characteristics of the industrial wastes Explain the term Biotrickling filter.	07 07
Q.4	(a)	Why the coliform are used in the bacterial analysis.	07
	(b)	Explain the following term - a) Acclimation b.) Land farming	07
		OR	
Q.4	(a) (b)	Explain natural attenuation in bioremediation Write a detailed account on biodegradation of xanobiotics?	07 07
Q.5	(a)	Explain the term bioaugmentation and Bio stimulation.	07
	(b)	Explain the whole process involve in paper and pulp mill OR	07
Q.5	(a)	What is the manufacturing process in a tannery effluent	07
	(b)	What are the effects of chemical structure on biodegradation	07
