Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-IV • EXAMINATION - SUMMER • 2014

_		ode: 143503 Date: 23-06-2014	ı
•	10:	ame: Environment Bioscience 30 am - 01:00 pm Total Marks: 70	)
	2. N	Attempt all questions.  All All All All All All All All All Al	
Q.1	(a) (b)	i detail.	07 07
Q.2	(a) (b)	Brown and reproduced: Explain it in detail.	07 07
	(b)		07
Q.3	(a)	proteins along with the classification.	07
	(b)	What are lipids? Write it's classification and function of lipids?  OR	07
Q.3	(a) (b)	What are fatty acids? Explain saturated and unsaturated fatty acids in detail. What are enzymes and explain the properties of enzymes and factors affecting enzyme activity.	07 07
Q.4	(a) (b)	Explain the process of transcription in prokaryotes with diagram. What are mutations? Explain point and frameshift mutations along with consequences.	07 07
0.4	(a)	OR What do not have a second s	
Q.4	(a) (b)	What do you mean by biotechnology and write about it's applications in detail? Explain recombinant DNA, what are plasmids and how will you cut and join DNA molecule.	07 07
Q.5	(a)	What is bioremediation; explain it along with the role of micro-organims in bioremediation.	07
	(b)	Write a short note on biogas.	07
Q.5	(a)	OR Explain Fischer's template theory of anguments to the control of the control o	
<b>4.0</b>	(b)	Explain Fischer's template theory of enzymes and explain three types of enzyme regulation and inhibition.  Write a short note on biosynthesis of DNA.	07
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**07**