Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

		BE - SEMESTER-I & II(NEW) EXAMINATION – WINTER 202	
Subj	ect	Code:3110007 Date:15-03-	-2023
Subj	ect :	Name:Environmental Sciences	
Гіте	:10	:30 AM TO 01:00 PM Total Mar	ks:70
nstru			
	1.	Attempt all questions.	A
	2.	Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
	4.	Simple and non-programmable scientific calculators are allowed.	V.
			Mark
Q.1	(a)	Define: Environment, Ecology, Pollution	03
	(b)	What is environmental degradation? List out causes of environmental	04
		degradation.	
	(c)	Discuss about various spheres of environment and their interrelationship	07
		with suitable example.	
Q.2	(a)	Give classification of various air pollutants.	03
	(b)	Define: Garbage, Incineration, Eutrophication, Particulate matter (PM)	04
	(c)	Discuss about major water pollutants and their effects.	07
		OR	
	(c)	Explain structure of atmosphere with neat sketch	07
Q.3	(a)	Differentiate between point and non-point source of water pollution.	03
	(b)		04
	(c)	Discuss in detail about various types of solid waste.	07
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Q.3	(a)	Justify the need of E-waste management.	03
	(b)		04
	(c)	Enlist sources of biomedical waste. Discuss about colour coding for	07
		segregation of biomedical waste.	
Q.4	(0)	Note down various sources of noise pollution.	03
Ų.4	(a) (b)		04
	(c)	What is green house effect? Briefly discuss various green house gases	07
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		OR	
Q.4	(a)	State various methods for disposal of solid waste.	03
ζ	(b)	The same of the sa	04
	(c)	What is acid rain? Discuss about effects and control of acid rain.	07
	(-)		
Q.5	(a)	Enlist steps for minimizing carbon footprint.	03
	(b)	Briefly discuss about need of sustainable development.	04
	(c)	Explain various benefits of Green Building.	07
		OR	
Q.5	(a)	List out various international steps for mitigation of global change.	03
	(b)	Distinguish between primary and secondary carbon footprint.	04
	(c)	Discuss about various features of smart city.	07