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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-I & II(NEW) EXAMINATION - WINTER 2022

Subject Code:3110007 Da	ate:15-03-2023
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Subject Name:Environmental Sciences

Time:10:30 AM TO 01:00 PM	Fotal Marks:70
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Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

	4.	Simple and non-programmable scientific calculators are allowed.	
		• •	Mark
Q.1	(a)	Define: Environment, Ecology, Pollution	03
	(b)		04
	(c)	Discuss about various spheres of environment and their interrelationship with suitable example.	07
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)	Differentiate between Recycle and Recover.	04
	(c)	Discuss in detail about various types of solid waste. OR	07
Q.3	(a)	Justify the need of E-waste management.	03
	(b)	· · · · · · · · · · · · · · · · · · ·	04
	(c)	Enlist sources of biomedical waste. Discuss about colour coding for segregation of biomedical waste.	07
Q.4	(a)	Note down various sources of noise pollution.	03
	(b)		04
	(c)	What is green house effect? Briefly discuss various green house gases (GHG).	07
		OR	
Q.4	(a)	State various methods for disposal of solid waste.	03
	(b)		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
0.5	(0)	OR List out various intermedianal stans for mitigation of alabel abonce	02
Q.5	(a) (b)	List out various international steps for mitigation of global change. Distinguish between primary and secondary carbon footprint.	03 04
	(c)	Discuss about various features of smart city.	07
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