GUJARAT TECHNOLOGICAL UNIVERSITY BE- SEMESTER-I & II EXAMINATION – WINTER 2024

BE- SEMESTER-I & II EXAMINATION – WINTER 2024			
Subj	ect (Code:3110007 Date:18-01-20)25
Subject Name:Environmental Sciences			
	Time:10:30 AM TO 01:00 PM Total Marks:7		
Instructions:			
motru		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
	4.	Simple and non-programmable scientific calculators are allowed.	
Q.1	(a)	Discuss the scope of environmental Sciences.	03
	(b)	Explain various components of environment.	04
	(c)	Describe the objectives and guiding principles of Environmental Sciences.	07
Q.2	(a)	Differentiate between sound and noise.	03
V •2	(b)	Define and explain: (i) Pollution (ii) Ecosystem (iii) Whole some water	04
	(0)	(iv) Environmental degradation	04
	(c)	Discuss about major water pollutants and their effects.	07
		OR	
	(c)	Write a short note on water quality parameters.	07
Q.3	(a)	What are the primary sources of e-waste generation in India? Explain with	03
		examples.	
	(b)	Enlist & explain the factors affecting municipal solid waste generation.	04
	(c)	Describe the effects of air pollution on plants, properties and human beings.	07
		OR	
Q.3	(a)	What are the steps that should be taken by the government and industry	03
		stakeholders to improve e-waste management practices?	
	(b)	State different methods of solid waste disposal. Explain any one in detail.	04
	(c)	Discuss sources & effects of noise pollution.	07
Q.4	(a)	Discuss the need of sustainable development.	03
	(b)	State different methods of biomedical waste treatment. Explain any one in	04
		detail.	
	(c)	Write a short note on acid rain.	07
		OR	
Q.4	(a)	Discuss the benefits for the calculations of carbon footprints.	03
	(b)	Give the different classification of biomedical waste.	04
	(c)	Write a short note on global warming due to greenhouse gases.	07
•			
Q.5	(a)	Discuss the steps that should be taken at the individual level to reduce noise	03
	(b)	pollution in their local communities. Write a brief note on concent of smart city	Ω4
	(\mathbf{b})	Write a brief note on concept of smart city.	04
	(c)	Describe the applications of 4R principle with example. OR	07
05	(a)		02
Q.5	(a) (b)	Discuss the measures to control the water pollution.	03 04
	(\mathbf{b})	Define the green building and give its objectives.	
	(c)	Explain need of 4R concept for waste minimization.	07
