## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE- SEMESTER-I & II(NEW)EXAMINATION – SUMMER 2022

Subject Code:3110007 Date:23-08		Code:3110007 Date:23-08-2022	-2022	
Subject Name:Environmental Sciences Time:10:30 AM TO 01:00 PM Total Ma			70	
Instru	1. 2. 3. 4.	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.  Simple and non-programmable scientific calculators are allowed.		
Q.1	(a)	Discuss the need of sustainable development.	03	
	<b>(b)</b>	Describe the various components of environment.	04	
	(c)	Explain how environmental science is important for various engineering disciplines.	07	
Q.2	(a)	What is environmental science?	03	
	<b>(b)</b>	Define environmental pollution and give the various causes of it.	04	
	(c)	Explain the effects of toxic substance present in water and biomagnification.	07	
		OR		
	(c)	Discuss the various water quality parameters in detail.	07	
Q.3	(a)	Narrate the concept of 4R.	03	
	<b>(b)</b>	Give the different sources of water pollution.	04	
	(c)	Explain the role of individual in environmental protection.  OR	07	
Q.3	(a)		03	
	<b>(b)</b>		04	
	(c)	Explain the effects of air pollution on human beings and property.	07	
Q.4	(a)	Differentiate between sound and noise.	03	
	<b>(b)</b>	Give the classification of air pollutants.	04	
	(c)	Enlist and explain different methods used for treatment of biomedical waste.  OR	07	
Q.4	(a)	What are effects of noise pollution?	03	
	<b>(b)</b>	Give the sources of air pollution.	04	
	(c)	Explain the various methods used for solid waste disposal.	07	
Q.5	(a)	Enlist different sources of biomedical waste.	03	
	<b>(b)</b>		04	
	(c)	Write a short note on acid rain.	07	
0.5	(a)	OR Explain how e-waste should be managed.	03	
Q.5	(a)	· · ·		
	<b>(b)</b>	·	04	
	(c)	Write a short note on ozone layer depletion.	07	

\*\*\*\*\*