Seat No.: Enrolment No

GUJARAT TECHNOLOGICAL UNIVERSITY RE- SEMESTER-I & H(NEW)EXAMINATION - SHMMER 2022

Subject Code:3110007 Date:23-08-2022			
Subject Name:Environmental Sciences Fime:10:30 AM TO 01:00 PM Instructions: Total Marks			' 0
instru	1. 2.	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)	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)	Define environmental pollution and give the various causes of it.	04
	(c)	Explain the effects of toxic substance present in water and biomagnification. OR	07
	(c)	Discuss the various water quality parameters in detail.	07
Q.3	(a)	Narrate the concept of 4R.	03
	(b)	Give the different sources of water pollution.	04
	(c)	Explain the role of individual in environmental protection.	07
Q.3	(a)	OR Differentiate between recycle and reuse with example.	03
	(a) (b)	· · · · · · · · · · · · · · · · · · ·	03
	(c)	Explain the effects of air pollution on human beings and property.	07
Q.4	(a)	Differentiate between sound and noise.	03
	(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)	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)	Discuss the objectives of green building.	04
	(c)	Write a short note on acid rain.	07
0.5	(2)	OR Explain how a wests should be managed	02
Q.5	(a)	Explain how e-waste should be managed.	03
	(b)	Enlist the core infrastructure elements of a smart city.	04
	(c)	Write a short note on ozone layer depletion.	07
