<b>Enrollment No:</b>	Exam Seat No:

## C. U. SHAH UNIVERSITY

## Winter Examination-2020

**Subject Name: Environmental Studies** 

Subject Code: 4TE01ENS1 Branch: B.Tech (All)

Semester: 1 Date: 16/03/2021 Time: 03:00 To 06:00 Marks: 70

## **Instructions:**

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1	Attempt the following questions:	(14)
_	a) Non – renewable resources are	1
	(a) Soil-water (b) Plants and animals (c) Coal, Petroleum (d) Sunlight, air	•
	<b>b)</b> Genetic variation between distinct populations of the same species is	1
	known as	
	(a) Species diversity (b) Ecosystem diversity	
	(c) Genetic diversity (d) Biodiversity	
	c) The least pollutant receptor or sink on the earth is	1
	(a) Hydrosphere (b) Atmosphere (c) Lithosphere (d) None of these	
	d) Normal average thickness of stratospheric ozone layer across the globe is	1
	around	
	(a) 200 DU (b) 300 DU (c) 400 DU (d) 500 DU	
e	e) The universal declaration of human rights was proclaimed by the UN in	1
	the year	
	(a) 1946 (b) 1947 (c) 1948 (d) 1949	
	f) The average life expectancy around the world is currently	1
	(a) Decreasing (b) Increasing (c) Not changing (d) Stabilizing	
	g) Major compound responsible for the destruction of stratospheric ozone	1
	layer is	
	(a) Oxygen (b) Centimeters (c) Decibels (d) Dobson Units	
	h) The disease which wiped out one third of the population of Europe in the	1
	12 <sup>th</sup> and 13 <sup>th</sup> centuries was	
	(a) Cholera (b) Plague (c) Meningitis (d) Diphtheria	
	i) Most stable ecosystem is	1
	(a) Forest (b) Desert (c) Ocean (d) Mountain	
	j) The main pathogen present in contaminated water is	1
	(a) Bacteria (b) Algae (c) Protozoa (d) All of the above	
	k) Out of total water on the earth surface fresh water is about	1
	(a) 97% (b) 23% (c) 3% (d) 1%	
	1) The shape of the pyramid of biomass for a pond or any ecosystem is	1
	(a) Inverted (b) Up right (c) Linear (d) Non certain	



	m)	Which of the following is a biodiversity hot spot in India?	1
	)	(a) Gulf of Mannar (b) Western ghat (c) Pachmarhi (d) Suderbans	1
	n)	Water is acidic if its pH is	1
A ttor	nnt onv	(a) 7 (b) Grater than 7 (c) Less than 7 (d) None of these four questions from Q-2 to Q-8	
Atter	прі апу	Total questions from Q-2 to Q-8	
Q-2		Attempt all questions	(14)
_	A	Explain the effect of timber extraction, mining and dam on the forest.	7
	В	Give a brief account of biogeographically classification of India.	7
Q-3		Attempt all questions	(14)
	$\mathbf{A}$	What is energy and energy resources? Write in brief about different	7
		energy resources.	
	В	How do you justify India as a mega-diversity nation? Explain.	7
Q-4		Attempt all questions	(14)
	$\mathbf{A}$	Explain terms food chain and food web with example of aquatic and	7
		terrestrial ecosystem.	
	В	Narrate the Bhopal gas tragedy.	7
Q-5		Attempt all questions	(14)
	$\mathbf{A}$	Write the effects of pollution on the Ganga river. Mention the initiatives	7
		taken by present Government to overcome it.	
	В	What is biome? Enlist different types of biome and explain any two.	7
Q-6		Attempt all questions	(14)
	$\mathbf{A}$	Explain the steps for solid waste disposal. Mention the treatment stages	7
		of solid waste.	
	В	Write short notes on the following problems of modern agriculture.	7
		(a) Fertilizers (b) Pesticides	
Q-7		Attempt all questions	(14)
Q-7	A	What is biogeochemical cycle? Explain hydrological cycle with neat	7
	11	sketch.	,
	В	What is nuclear pollution? Discuss the controlling measures of nuclear	7
		pollution.	
Q-8		Attempt all questions	(14)
_	$\mathbf{A}$	Give the greenhouse gases and its effect on environment.	7
	В	What is global warming? What are the impacts of global warming?	7
		Which are the measures to reduce global warming?	

