

Enrollment No: \_\_\_\_\_ Exam Seat No: \_\_\_\_\_

# C.U.SHAH UNIVERSITY

## Summer Examination-2018

**Subject Name:** Environmental Engineering & Management

**Subject Code:** 4TE01EEM2

**Branch:** B.Tech (All)

**Semester:** 1

**Date:** 03/04/2018

**Time:** 02:30 To 05:30

**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.

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<b>Q-1</b>	<b>Define the following terms:</b>	<b>(14)</b>
	a) Environmental degradation	<b>01</b>
	b) Precipitation	<b>01</b>
	c) Hydrosphere	<b>01</b>
	d) Biome	<b>01</b>
	e) Ecosystem	<b>01</b>
	f) Autotrophs	<b>01</b>
	g) Symbiosis	<b>01</b>
	h) Renewable energy resources	<b>01</b>
	i) Drought	<b>01</b>
	j) Pollutant	<b>01</b>
	k) Smog	<b>01</b>
	l) Flora and fauna	<b>01</b>
	m) Species	<b>01</b>
	n) Acid rain	<b>01</b>
<b>Attempt any four questions from Q-2 to Q-8</b>		
<b>Q-2</b>	<b>Attempt all questions</b>	<b>(14)</b>
	(a) What is the role of environmental engineer? Describe.	<b>05</b>
	(b) Explain the concept of Energy flow in an ecosystem.	<b>05</b>
	(c) Differentiate between: Deforestation and Desertification.	<b>04</b>
<b>Q-3</b>	<b>Attempt all questions</b>	<b>(14)</b>
	(a) Write short note on: pond ecosystem.	<b>05</b>
	(b) Write short note on levels of organization.	<b>05</b>
	(c) Describe effects of air pollution on human.	<b>04</b>
<b>Q-4</b>	<b>Attempt all questions</b>	<b>(14)</b>
	(a) Write short note on ozone layer depletion.	<b>05</b>
	(b) Explain with sketch green house effect.	<b>05</b>
	(c) Differentiate between degradable and non-degradable pollutants.	<b>04</b>
<b>Q-5</b>	<b>Attempt all questions</b>	<b>(14)</b>
	(a) What is biogeochemical cycle? Explain Nitrogen cycle with neat sketch.	<b>07</b>
	(b) Define food chain and discuss different trophic levels of it.	<b>07</b>
<b>Q-6</b>	<b>Attempt all questions</b>	<b>(14)</b>
	(a) Write in detail about the mineral resources, its uses and exploitation, its	<b>07</b>



environmental effects of extracting and using mineral resources.

- (b) What is energy and energy resources? Write in brief about different energy resources. **07**

**Q-7 Attempt all questions (14)**

- (a) Define water pollution and describe sources, effects and control measures of water pollution. **07**

- (b) Discuss the status of India as a mega diverse nation of biodiversity. **07**

**Q-8 Attempt all questions (14)**

- (a) What is the consequence of deforestation? How can you conserve forest? **07**

- (b) Define the terms biodiversity and its conservation and discuss genetic, species and ecosystem diversity in detail. **07**

