

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.

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



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**

