

# C.U.SHAH UNIVERSITY

## Summer Examination-2017

**Subject Name :** Environmental Engineering & Management

**Subject Code :** 4TE01EEM1/4TE01EEM2

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

**Semester :** 1

**Date :** 01/04/2017

**Time :** 10:30 To 01:30

**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.

<b>Q-1</b>	<b>Attempt the following questions:</b>	<b>(14)</b>
	a) What is environment?	01
	b) What is biosphere?	01
	c) What is evaporation?	01
	d) Define ecological succession.	01
	e) Define tropic level.	01
	f) What are heterotrophs?	01
	g) Define soil erosion.	01
	h) What is fog?	01
	i) What are green house effects?	01
	j) What is thermal pollution?	01
	k) Define hot spot.	01
	l) What is genetic diversity?	01
	m) What is sustainable development?	01
	n) What is water logging?	01
	<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) Explain the need for public awareness about the environment and its degradation.	05
	(b) Draw the carbon cycle and explain its functioning.	05
	(c) Differentiate between ecology and ecosystem.	04
<b>Q-3</b>	<b>Attempt all questions</b>	<b>(14)</b>
	(a) Write short note on symbiosis.	05
	(b) Write short note on marine ecosystem.	05
	(c) What are the objectives of ecological study?	04
<b>Q-4</b>	<b>Attempt all questions</b>	<b>(14)</b>
	(a) Define acid rain. How does it form and what are its ill effects?	05
	(b) Give a brief account of biogeographically classification of India.	05
	(c) Differentiate between degradable and non-degradable pollutants.	04
<b>Q-5</b>	<b>Attempt all questions</b>	<b>(14)</b>
	(a) Describe the structure of atmosphere and tabulate the compositions of	07



- atmosphere.
- (b) What do you mean by food chain? Explain the types of food chain in detail. 07
- Q-6 Attempt all questions (14)**
- (a) Define ecological succession and its causes. Also explain primary succession and secondary succession 07
- (b) Explain in detail pyramid of numbers and pyramid of biomass. 07
- Q-7 Attempt all questions (14)**
- (a) What is the consequence of deforestation? How can you conserve forest? 07
- (b) Differentiate renewable and non-renewable energy resources and discuss the effect of overpopulation on energy problems. 07
- Q-8 Attempt all questions (14)**
- (a) What are the different types of pollutions? Describe the causes (sources) and effects of Marine pollution. 07
- (b) Explain about the In-situ and Ex-situ conservation of biodiversity. Discuss India's mega-diverse biodiversity. 07

