

C.U.SHAH UNIVERSITY

Summer Examination-2016

Subject Name : Environmental Engineering & Management

Subject Code : 4TE01EEM2 **Branch :** B. Tech(Civil)

Semester : 1 **Date :** 02/05/2016 **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.

Q-1	Define the following terms:	(14)
	a) Environment	01
	b) Evaporation	01
	c) Atmosphere	01
	d) Ecological pyramid	01
	e) Autotrophs	01
	f) Symbiosis	01
	g) Renewable resources	01
	h) Thermal pollution	01
	i) Pollutant	01
	j) In-situ conservation	01
	k) Flora and fauna	01
	l) Abiotic components	01
	m) Ecological succession	01
	n) Heterotrophs	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?	05
	(b) Define water cycle and differentiate between precipitation and evaporation.	05
	(c) Differentiate between: Deforestation and Desertification.	04
Q-3	Attempt all questions	(14)
	(a) Explain the concept of energy flow in an ecosystem.	05
	(b) Write a short notes on ecosystem.	05
	(c) Differentiate between degradable and non-degradable pollutants.	04
Q-4	Attempt all questions	(14)
	(a) What is biogeochemical cycle? Explain nitrogen cycle with neat sketch.	05
	(b) What is biome? Enlist different types of biome and explain any two.	05
	(c) Differentiate between: ecology and ecosystem.	04



- Q-5 Attempt all questions (14)**
(a) Enlist various types of ecosystem. Explain grassland ecosystem in detail. 07
(b) Write in detail about the mineral resources, its uses and exploitation, its environmental effects of extracting and using mineral resources. 07
- Q-6 Attempt all questions (14)**
(a) Define water pollution and describe sources, effects and control measures of water pollution. 07
(b) Define the terms Biodiversity and its conservation and discuss genetic, species and ecosystem diversity in detail. 07
- Q-7 Attempt all questions (14)**
(a) Explain the In-situ and Ex-situ conservation of biodiversity. Discuss India's mega-diverse biodiversity. 07
(b) Write the causes, effect and control measures of air pollution. 07
- Q-8 Attempt all questions (14)**
(a) Define food chain and discuss different tropical levels of it. 07
(b) Explain in detail the pyramid of numbers and pyramid of biomass. 07

