

Enrollment No: \_\_\_\_\_

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

# C. U. SHAH UNIVERSITY

## Winter Examination-2019

**Subject Name : Environmental Engineering & Management**

**Subject Code : 4TE01EEM2**

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

**Semester : 1**

**Date : 27/11/2019**

**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>Attempt the following questions:</b>	<b>(14)</b>
	a) What is nitrogen fixation?	1
	b) What is nuclear pollution?	1
	c) What is renewable energy resources?	1
	d) Define greenhouse effect.	1
	e) What is biodiversity?	1
	f) What is environmental degradation?	1
	g) Define hot spot.	1
	h) What is eutrophication?	1
	i) What is precipitation?	1
	j) What is drought?	1
	k) Define ecological pyramid.	1
	l) What is ex-situ conservation?	1
	m) What is the consequence of deforestation?	1
	n) Define biome.	1

**Attempt any four questions from Q-2 to Q-8**

<b>Q-2</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a) What is biogeochemical cycle? Explain Hydrological cycle with sketch.	7
	b) Explain terms food chain and food web with example of aquatic and terrestrial ecosystem.	7
<b>Q-3</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a) What is environmental studies, explain the importance of environmental studies.	7
	b) What is energy and energy resources? Write in brief about different energy resources.	7
<b>Q-4</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a) Define ecological succession and its causes. Also, explain primary succession and secondary succession.	7



- b) How do you justify India as a mega-diversity nation? Explain. 7
- Q-5 Attempt all questions (14)**
- a) Explain in detail biogeographical classification of India. 7
- b) What are the minerals? Enlist principal minerals of India. What are the effects on environment due to extraction of mineral resources? 7
- Q-6 Attempt all questions (14)**
- a) Write a short note on problems of using pesticides and fertilizers in modern agriculture practice. 7
- b) What are the threats to biodiversity in view of habitat loss and man-wild life conflicts? Enlist the endangered and endemic species of India. 7
- Q-7 Attempt all questions (14)**
- a) Differentiate renewable and non-renewable energy resources and discuss the effect of overpopulation on energy problem. 7
- b) What are the different types of pollution? Describe the causes (sources) and effects of marine pollution. 7
- Q-8 Attempt all questions (14)**
- a) What is global warming? What are the impacts of global warming? Which are the measures to reduce global warming? 7
- b) What are the different methods of extracting minerals? Explain. 7

