

# C.U.SHAH UNIVERSITY

## Summer Examination-2018

**Subject Name : Environmental Studies**

**Subject Code : 4TE01ENS1**

**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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**Q-1 Attempt the following questions: (14)**

- a) Define BOD.
- b) Give the pH range of standard water quality.
- c) Define temporary hardness of water.
- d) World environmental day is celebrated on?
- e) Define biomass.
- f) What is planting of trees called?
- g) What is the sex ratio in India?
- h) The scientific study of human population is called?
- i) Name two natural disasters that caused environment degradation in India.
- j) Give full form of DDT.
- k) Electricity is generated by sunlight using?
- l) In what unit noise level is measure.
- m) What are fossil fuels: renewable or non-renewable resources?
- n) Common fuel used in nuclear reactor is?

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

**Q-2 Attempt all questions (14)**

- a) Explain noise pollution and its limits. Mention the causes and effects on humans. Also mention the methods to reduce machine noises in industry. **08**
- b) Explain the effects of deforestation on environment. **04**
- c) Define renewable and non-renewable resources. **02**

**Q-3 Attempt all questions (14)**

- a) Explain the pyramid of energy with neat sketches. **05**
- b) Write a note on biomass as the source of energy. **06**
- c) Explain El'Nino and La'Nina effects. **03**

**Q-4 Attempt all questions (14)**

- a) Explain nitrogen fixation. **03**



- b) Explain food chain and food web. **05**  
c) Explain environmental degradation. **06**
- Q-5** **Attempt all questions** **(14)**  
a) Explain any significant disaster in India in detail. **07**  
b) Explain oxygen cycle. **07**
- Q-6** **Attempt all questions** **(14)**  
a) Draw and explain the various components of atmosphere. **08**  
b) Define sustainable development. Explain it with an example. **06**
- Q-7** **Attempt all questions** **(14)**  
a) Explain marine ecosystem. **07**  
b) Write a note on green house gases and its effects. **07**
- Q-8** **Attempt all questions** **(14)**  
a) Differentiate between biotic and abiotic components. **06**  
b) Calculate the population of a town after two decades for the following data by arithmetic increase method and geometric increase method. **08**

Year	Population
1980	25000
1990	28000
2000	34000
2010	42000

