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.

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