

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

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

# C.U. SHAH UNIVERSITY

## Summer Examination-2020

**Subject Name: Environmental Engineering & Management**

**Subject Code: 4TE01EEM2**

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

**Semester: 1**

**Date: 06/03/2020**

**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) What are renewable energy resources?                      (1)
  - b) Define flora and fauna.                      (1)
  - c) What is In-situ conservation?                      (1)
  - d) Define biodiversity.                      (1)
  - e) What is drought?                      (1)
  - f) What is sustainable development?                      (1)
  - g) Define acid rain.                      (1)
  - h) Define herbivores.                      (1)
  - i) What is thermal pollution?                      (1)
  - j) What is potable water?                      (1)
  - k) What is eutrophication?                      (1)
  - l) What is genetic diversity?                      (1)
  - m) What is biosphere?                      (1)
  - n) Define tropic level.                      (1)

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

- Q-2**                      **Attempt all questions**                      **(14)**
- A) What is biogeochemical cycle? Explain hydrological cycle with neat sketch.                      (7)
  - B) Enlist various types of ecosystem. Explain grassland ecosystem in detail.                      (7)
- Q-3**                      **Attempt all questions**                      **(14)**
- A) What is energy and energy resources? Write in brief about different energy resources.                      (7)
  - B) Explain the need for public awareness about the environment and its degradation.                      (7)
- Q-4**                      **Attempt all questions**                      **(14)**
- A) Define ecological succession and its causes. Also explain primary succession and secondary succession.                      (7)
  - B) Explain the effect of timber extraction, mining and dam on the forest.                      (7)
- Q-5**                      **Attempt all questions**                      **(14)**
- A) Discuss the status of India as a mega diverse nation of biodiversity.                      (7)
  - B) Write the effect of pollution on Ganga River. Mention the initiatives taken by present                      (7)



government to overcome it.

- Q-6** **Attempt all questions** (14)
- A) Narrate the Bhopal Gas Tragedy. (7)
- B) Write in detail about the mineral resources, its uses and exploitation, its environmental effects of extracting and using mineral resources. (7)
- Q-7** **Attempt all questions** (14)
- A) What are the threats to biodiversity in view of habitat loss and man-wild life conflict? Enlist the endangered and endemic species of India. (7)
- B) What is noise pollution? How is it measured? Describe the effects of noise pollution on human. (7)
- Q-8** **Attempt all questions** (14)
- A) Differentiate renewable and non-renewable energy resources and discuss the effect of overpopulation on energy problems. (7)
- B) What do you understand by 'Hot Spot of Biodiversity'? Name and briefly describe the two hotspots of biodiversity that extend into India. (7)

