

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

# C.U.SHAH UNIVERSITY

## Winter Examination-2018

**Subject Name:** Environmental Engineering & Management

**Subject Code:** 4TE01EEM2

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

**Semester:** 1

**Date:** 07/12/2018

**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) Enlist various components of environment. **01**
  - b) What is environmental science? **01**
  - c) What is the range of temperature variations in troposphere? **01**
  - d) What is photosynthesis? **01**
  - e) What is biomagnifications? **01**
  - f) What are heterotrophs? **01**
  - g) What is ecology? **01**
  - h) What are fossil fuels and why they are non-renewable? **01**
  - i) State the environment effects of extracting and using mineral resources. **01**
  - j) What is sound pressure level? **01**
  - k) What is land degradation? **01**
  - l) What is nuclear pollution? **01**
  - m) Define productive use of biodiversity. **01**
  - n) What is ex-situ conservation? **01**
- Attempt any four questions from Q-2 to Q-8**
- Q-2 Attempt all questions (14)**
- (a) Explain the impact of “technology and development on environment”. **07**
  - (b) Differentiate renewable and non-renewable energy resources and discuss the effect of overpopulation on energy problems. **07**
- Q-3 Attempt all questions (14)**
- (a) Explain the need for public awareness about the environment and its degradation. **05**
  - (b) Draw the carbon cycle and explain its functioning. **05**
  - (c) Differentiate between biotic and abiotic components. **04**
- Q-4 Attempt all questions (14)**
- (a) Define air pollution and describe effects of air pollution on human. **05**
  - (b) Write short note on ozone layer depletion. **05**
  - (c) Differentiate between food chain and food web. **04**
- Q-5 Attempt all questions (14)**
- (a) Explain in detail pyramid of numbers and pyramid of biomass. **07**
  - (b) What is global warming? What are the impacts of global warming? Which are the measures to reduce global warming? **07**



- Q-6      Attempt all questions      (14)**
- (a) Define acid rain. How does it form and what are its ill effects?      **07**
- (b) What are the minerals? Enlist principal minerals of India and what are the effects on environment due to extraction of mineral resources?      **07**
- Q-7      Attempt all questions      (14)**
- (a) What is biogeochemical cycle? Explain Nitrogen cycle with neat sketch.      **07**
- (b) Define ecological succession and its causes. Also explain primary succession and secondary succession      **07**
- Q-8      Attempt all questions      (14)**
- (a) What do you understand by ‘Hot Spots of Biodiversity’? Enlist and briefly describe the two hotspots of biodiversity that extend into India.      **07**
- (b) Suggest suitable steps for conservation of biodiversity also enlist various factors affecting biodiversity. Give advantages of conservation of biodiversity.      **07**

