

C.U.SHAH UNIVERSITY

WADHWAN CITY

University (Winter) Examination -2013

Course Name :B.Tech Sem-I

Subject Name: -Environmental Engineering & Management

Marks :70


Duration :- 2:30 Hours

Date : 30/12/2013

Instructions:-

- (1) Attempt all Questions of both sections in same answer book / Supplementary.
- (2) Use of Programmable calculator & any other electronic instrument is prohibited.
- (3) Instructions written on main answer Book are strictly to be obeyed.
- (4) Draw neat diagrams & figures (If necessary) at right places.
- (5) Assume suitable & Perfect data if needed.

SECTION-I

- Q-1 Define the following terms:
- | | | |
|------------------------|--|----|
| (a) Ecology | | 01 |
| (b) Ecosystem | | 01 |
| (c) Food Web | | 01 |
| (d) Pyramid of Numbers | | 02 |
| (e) Pyramid of Biomass | | 02 |
- Q-2(i) What is Environment? Discuss the impact of human on environment. 05
- Q-2(ii) "The need for public awareness about environment is of vital importance." Discuss. 05
- Q-2(iii) Define these terms:
- | | | |
|-----------------|--|----|
| (a) Lithosphere | | 04 |
| (b) Hydrosphere | | |
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OR
- Q-2(i) What is Biogeochemical cycle? Explain in detail. 05
- Q-2(ii) Explain Carbon cycle and its functioning with neat sketch. 05
- Q-2(iii) Define Water cycle and differentiate between Precipitation and Evaporation 04
- Q-3(i) Define food chain and discuss different trophical levels of it. 07
- Q-3(ii) Write short notes on:
- | | | |
|-----------------------|--|----|
| (a) Pond Ecosystem. | | 07 |
| (b) Desert Ecosystem. | | |

OR

- Q-3(i) Explain the use and over exploitation of Forest resources. Discuss the effect of overpopulation on forest resources. 07
- Q-3(ii) Write in detail about the mineral resources, its uses and exploitation, its environmental effects of extracting and using mineral resources. 07

SECTION-II

- Q-4(i) Define the terms:
- | | | |
|--------------|--|----|
| a) Pollution | | 04 |
| b) Pollutant | | |
- Q-4(ii) Explain the degradable and non degradable pollutants. 03



- Q-5(i) What are different types of pollutions? Describe the causes and effects of Marine pollution. 05
- Q-5(ii) Enlist and explain sources of water pollution and its control measures. 05
- Q-5(iii) Explain the terms: 04
- Global 200
 - Hotspots of Biodiversity
 - TTS
 - NIPTS

OR 05

- Q-5(i) Define acid rain. How does it form and what are its ill effects? 05
- Q-5(ii) What is Noise pollution? How is it measured? Describe the effects of noise pollution on human. 05
- Q-5(iii) Write short notes on the following problems of modern agriculture. 04
- Fertilizers
 - Pesticides.
- Q-6(i) Write the causes, effect and control measures of air pollution 07
- Q-6(ii) Define the terms Biodiversity and its conservation and discuss genetic, species and ecosystem diversity in detail. 07

OR

- Q-6(i) What are the threats to biodiversity in view of habitat loss and man-wild life conflicts? Enlist the endangered and endemic species of India. 07
- Q-6(ii) Explain about the In-situ and Ex-situ conservation of biodiversity. Discuss India's mega-diverse biodiversity. 07

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