

C.U.SHAH UNIVERSITY

Summer Examination-2017

Subject Name : Environmental Engineering & Management

Subject Code : 4TE01EEM1/4TE01EEM2

Branch : B.Tech(All)

Semester : 1

Date : 01/04/2017

Time : 10:30 To 01:30

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) What is environment? | 01 |
| | b) What is biosphere? | 01 |
| | c) What is evaporation? | 01 |
| | d) Define ecological succession. | 01 |
| | e) Define tropic level. | 01 |
| | f) What are heterotrophs? | 01 |
| | g) Define soil erosion. | 01 |
| | h) What is fog? | 01 |
| | i) What are green house effects? | 01 |
| | j) What is thermal pollution? | 01 |
| | k) Define hot spot. | 01 |
| | l) What is genetic diversity? | 01 |
| | m) What is sustainable development? | 01 |
| | n) What is water logging? | 01 |
| | Attempt any four questions from Q-2 to Q-8 | |
| Q-2 | 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 ecology and ecosystem. | 04 |
| Q-3 | Attempt all questions | (14) |
| | (a) Write short note on symbiosis. | 05 |
| | (b) Write short note on marine ecosystem. | 05 |
| | (c) What are the objectives of ecological study? | 04 |
| Q-4 | Attempt all questions | (14) |
| | (a) Define acid rain. How does it form and what are its ill effects? | 05 |
| | (b) Give a brief account of biogeographically classification of India. | 05 |
| | (c) Differentiate between degradable and non-degradable pollutants. | 04 |
| Q-5 | Attempt all questions | (14) |
| | (a) Describe the structure of atmosphere and tabulate the compositions of | 07 |



- atmosphere.
- (b) What do you mean by food chain? Explain the types of food chain in detail. 07
- Q-6 Attempt all questions (14)**
- (a) Define ecological succession and its causes. Also explain primary succession and secondary succession 07
- (b) Explain in detail pyramid of numbers and pyramid of biomass. 07
- Q-7 Attempt all questions (14)**
- (a) What is the consequence of deforestation? How can you conserve forest? 07
- (b) Differentiate renewable and non-renewable energy resources and discuss the effect of overpopulation on energy problems. 07
- Q-8 Attempt all questions (14)**
- (a) What are the different types of pollutions? Describe the causes (sources) and effects of Marine pollution. 07
- (b) Explain about the In-situ and Ex-situ conservation of biodiversity. Discuss India's mega-diverse biodiversity. 07

