

C.U.SHAH UNIVERSITY

Wadhwan City

Subject Code 4SC01ESE1

Summer Examination-2014

Date: 3/06/2014

Subject Name:- Environmental Science

Branch/Semester:-B.Sc(Pure Science) /I

Time:10:30 To 1:30

Examination: Remedial

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 terms:**

- a. Consumer (1)
 - b. Abiotic component (1)
 - c. Respiration (1)
 - d. Decomposers (1)
 - e. Symbiosis (1)
 - f. Autotroph (1)
 - g. Ecosystem (1)
- Q.2. a. Explain the need for public awareness about the environment and its degradation. (5)
- b. Explain Green House Effect. What are various sources of green house gases? (5)
- c. Discuss the physical components of environment. (4)

OR

- Q.2. a. Write a note on applications of solar energy explaining its limitations. (5)
- b. Write short notes on (i) Acid rain (ii) Environmental degradation (5)
- c. Write the difference between Conventional and Non-Conventional Energy. (4)
- Q.3. a. What is ecological pyramid? Describe the pyramid of mass and energy with sketch. (7)
- b. Describe uses and overuses of land and forest. (7)

OR

- Q.3. a. Why environmental education is important? Explain the impact of technology and development on environment. (7)
- b. Define Eutrophication, its causes and effects. (7)

SECTION II**Q.4. Define the terms:**

- a. Biosphere (1)
 - b. Pollution (1)
 - c. Environment (1)
 - d. Phototropism (1)
 - e. Estuaries (1)
 - f. Euphotic zone (1)
 - g. Producer (1)
- Q.5. a. Write the scope of environmental studies. (5)
- b. Explain the concept of Energy flow in an ecosystem and trophic levels. (5)
- c. Differentiate between "Food chain" and "Food web". (4)

OR

- Q.5 a. Prepare a list of fossil fuels and explain the environmental impacts of any one. (5)
b. Explain quality standard and quality parameter of water. (5)
c. Give the classification of air pollutants based on source. (4)
- Q.6. a. What is biogeochemical cycle? Explain the nitrogen cycle and Sulphur cycle (7)
b. What is energy conservation? Why do we need to conserve energy? (7)
- OR
- Q.6. a. Define environment and give composition of atmosphere and lithosphere. (7)
b. Explain in brief pond ecosystem, grassland ecosystem, and forest ecosystem. (7)

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