

C.U.SHAH UNIVERSITY

WADHWAN CITY

University (Winter) Examination -2013

Course Name : B.Sc(Micro) Sem-I

Subject Name: - Environmental Science

Duration :- 3:00 Hours

Date : 05/12/2013

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

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|-----|-----|---|---|
| Q-1 | (a) | Define Nitrogen fixation and denitrification. | 2 |
| | (b) | Differentiate between Deforestation and Desertification. | 2 |
| | (c) | Define Ecological Succession. | 1 |
| | (d) | Define atmosphere. | 1 |
| | (e) | What is biome ? | 1 |
| Q-2 | (a) | Explain the concept of Energy flow in an ecosystem | 5 |
| | (b) | Write the objectives and principles of environmental education. | 5 |
| | (c) | Define food chain and discuss different trophical levels of it. | 4 |
| Q-2 | (a) | Explain the need for public awareness about the environment and its degradation. | 5 |
| | (b) | Describe the structure of atmosphere and tabulate the compositions of atmosphere. | 5 |
| | (c) | Differentiate between (1) Ecology and Ecosystem, (2) Food chain and Food web. | 4 |
| Q-3 | (a) | Explain the effect of Timber extraction, mining and dams on the forest. | 7 |
| | (b) | What is meant by Ecological Pyramid? Describe the pyramid of biomass for terrestrial and aquatic ecosystem. | 7 |

OR

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|-----|-----|---|---|
| Q-3 | (a) | What is biogeochemical cycle?
Explain Hydrological cycle with neat sketch. | 7 |
| | (b) | What are the different methods of extracting minerals ? Explain. | 7 |

SECTION-II

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|-----|-----|---|---|
| Q-4 | (a) | Differentiate between Fog and Smog. | 2 |
| | (b) | Explain the degradable and non-degradable pollutants. | 2 |
| | (c) | Define watershed management. | 1 |
| | (d) | What is meant by the term Biopiracy? | 1 |
| | (e) | What is marine pollution? | 1 |



- Q-5 (a) Define any five of the followings 5
(i) Pollution, (ii) Sound Pressure level, (iii) Eutrophication, (iv) Point source,
(v) Thermal pollution , (vi) Nuclear pollution.
(b) Explain 'Ex-situ' conservation and 'In-situ' conservation of biodiversity. 5
(c) What is 'Sustainable Development'? Discuss the concept of Sustainable 4
Development.

OR

- Q-5 (a) Define Air Pollution and Describe effects of Air Pollution on Human. 5
(b) Give a brief account of biogeographical classification of india. 5
(c) Explain by drawing sketch: Green house effect. 4
- Q-6 (a) State the measures to control noise pollution also discuss the harmful effects 7
of noise pollution.
(b) Define Biodiversity and explain the three major components of biodiversity. 7

OR

- Q-6 (a) What is water conservation ? How can we conserve water in domestic areas, 7
industrial areas and agricultural areas ? Explain.
(b) What do you understand by 'Hot spots of Biodiversity' ? Name and briefly 7
describe the two hotspots of biodiversity that extend into India.

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