

II B.Tech I Semester Regular Examinations, November 2008
ENVIRONMENTAL STUDIES
(Common to Electronics & Communication Engineering, Chemical
Engineering, Electronics & Telematics, Electronics & Computer Engineering
and Aeronautical Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. What are the different activities that can be taken up to increase public awareness of environmental issues? Explain how they help in better environmental management. [16]
2. (a) What are the major water reservoirs of the World? How much water is fresh and where is it?
(b) What do you mean by:
 - i. eutrophication
 - ii. super fest
 - iii. shifting cultivation
 - iv. water logging. [8+8]
3. (a) Explain the functioning of hydrological cycle.
(b) Discuss the evaluation of climax ecosystem along with an example. [8+8]
4. (a) Write a note on Habitat loss.
(b) Write a note on Poaching of wildlife. [8+8]
5. (a) Mention the Four most important air pollutants- their sources and effects on man and environment.
(b) Write a note on Cyclone Scrubbers. Also mention the advantages and disadvantages of these scrubbers. [6+10]
6. (a) What is sustainable development?
(b) What are the primary needs of sustainable development?
(c) Discuss various measures of sustainable development. [6+4+6]
7. Describe the role of any EIGHT of the following Naturalists or Environmentalists or ENGOs with reference to 'Society and Environment':
 - (a) Sundarlal Bahuguna
 - (b) Medha Patkar
 - (c) Indira Gandhi
 - (d) Salim Ali

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Set No. 1

- (e) Raschel Carson
- (f) Sunita Narain
- (g) Gro Harlem brundtland
- (h) Maneka Gandhi
- (i) Willium Wordsworth
- (j) Louis Pasteur
- (k) J.C. Bose
- (l) Ramana Maharshi
- (m) Helen Keller
- (n) Wangari Maathai
- (o) Baba Amte
- (p) Jimmy Carter
- (q) WWF
- (r) UNICEF
- (s) UNO
- (t) MOEF.

[16]

8. Prepare a detailed report on the maintenance and management of water and waste in your town/city. Give the reference of cities like Chandigarh, Surat and Curitiba.

[16]

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1. (a) Explain the branches of environmental education.
(b) Write a note on population growth. [6+10]
2. (a) What is soil erosion? How can it be checked?
(b) Give some examples of strategic minerals. Where are the largest supplies of these minerals located? [8+8]
3. (a) Discuss about the elements of an aquatic ecosystem.
(b) Explain the primary and secondary succession. [8+8]
4. (a) Distinguish between the endemic and endangered species.
(b) Discuss the different threats to biodiversity. [8+8]
5. (a) What is noise pollution? Write the possible effects of noise pollution on animal health.
(b) What are various methods of control to reduce noise pollution? [8+8]
6. Write a short note on:
(a) Global Warming
(b) Acid Rains
(c) Ozone Holes. [5+5+6]
7. Discuss any FOUR of the following:
(a) 'Environmental education is a synonym of value education'
(b) 'Technology owes ecology an apology'
(c) Man is the wildest of all animals; Man is the pest of the planet.
(d) Life after 100 years
(e) Extinction of mankind. [16]
8. (a) Prepare a detailed report on the types of pollution produced due to a local polluted site in an urban area. Give suggestions for improving the area as an Eco-Industrial Park.

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Set No. 2

- (b) Write a detailed note on making Hyderabad as the cleanliest city of India with reference to the measures adopted in Surat, Chandigarh and Curitiba. [8+8]

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1. (a) Enumerate the properties of soil.
(b) Discuss the hydrological cycle with a neat sketch. [8+8]
2. (a) What are the advantages of recycling minerals?
(b) How can you as an individual conserve different natural resources? [8+8]
3. (a) Explain biogeochemical cycles in sustaining life on earth.
(b) Enumerate the branches of ecology. [8+8]
4. (a) Write a note on Man-animal conflict.
(b) Differentiate between Genetic diversity and species diversity. [8+8]
5. (a) What is noise pollution? Write the effects of noise pollution on human health mentioning the noise levels of some noisy sources in dB (A).
(b) Describe the various methods of control of 'Noise Pollution'. [8+8]
6. Discuss the following:
(a) Chernobyl Disaster vs. Bhopal tragedy
(b) Ozone Depletion vs Green house effect. [8+8]
7. (a) 'Information Technology can play an important role in improving the quality of Human life and environment'-Explain.
(b) Write a note on the control of the transmission of AIDS. [10+6]
8. (a) Prepare and analyze the type and amount of pollution offered by an industry at a place near Hyderabad. Give suggestions for improvement to make the area more environment friendly.
(b) Write note on the need of a green belt/zone to be maintained by any industry. [10+6]

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1. (a) Define lapse rate and temperature inversion.
(b) List the different components of the biosphere and their interdependency. [8+8]
2. (a) Describe ways of conserving metals and other mineral resources.
(b) What are the environmental hazards associated with mineral extraction. [8+8]
3. (a) Discuss on adaptation by natural selection.
(b) With a neat sketch, explain how the element carbon is recycled in nature. [8+8]
4. (a) List the environmental services offered by biodiversity.
(b) Discuss the Biopiracy. [8+8]
5. (a) Describe the 'Classification of air pollutants'.
(b) Explain the importance of control of air pollution in the preservation and protection of environment. [8+8]
6. Discuss the concept:
 - (a) Global Warming
 - (b) Sustainable Development
 - (c) Environmental self Audit. [5+5+6]
7. Describe the role of any EIGHT of the following Naturalists or Environmentalists or ENGOs with reference to 'Society and Environment':
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(o) MOEF

(p) WWF

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(r) UNO.

[16]

8. Prepare a report on what development you found ecological /environmental wise in a nearby village/rural area near to you in the last five years. [16]
