

**Environmental Science
(CE-216, Dec 2006)**

Time: 3 Hrs

Max Marks: 60

Note: Section A is compulsory. Attempt any four questions from Section B and two from Section C.

Section-A

1. (a) What is BIOSPHERE?
(b) Differentiate between renewable and non renewable natural resources?
(c) Enumerate possible environmental effects of dams (river valley projects)
(d) Differentiate between water logging and salinity.
(e) Explain solar air-conditioning?
(f) What is thermal pollution?
(g) What is ecological succession?
(h) "Rain water harvesting could be a possible option for water conservation"
Examine?
(i) What is an 'eco-mark'? What are its objectives?
(j) Discuss the role of information technology (IT) in human health.

Section-B

2. Discuss the assimilative and supportive capacity of natural environment. Consider carrying capacity as a planning tool.
3. Explain basic principles of ORGANIC FARMING as against modern agricultural practices.
4. What are the benefits and limitations of BIOTECHNOLOGY?
5. Discuss the results of the MONTREAL PROTOCOL?
6. How does VALUE EDUCATION help in environmental protection?

Section-C

7. Discuss India's Mega-diverse biodiversity.
8. Write short notes on:-
 - (a) Population explosion
 - (b) Maximum sustainable yield
 - (c) Doubling time
 - (d) Population growth curve
9. Explain the significance of geo environmental cycles in balance of ecosystem.

Environmental Science
(CE-216, May 2006)

Time: 3 Hrs

Max Marks: 60

Note: Section A is compulsory. Attempt any four questions from Section B and two from Section C.

Section-A

1. (a) What is the difference between threatened species and endangered species?
(b) Why is water a unique natural resource?
(c) What are fossil fuels and why they are nonrenewable?
(d) Define desertification and underline the causes.
(e) Write a short note on organic farming.
(f) What is smog and why it is caused?
(g) Describe three measures of water quality.
(h) What role do mangroves play in the event of a cyclone?
(i) What is meant by population explosion?
(j) Give two examples of successful Indian attempts in water conservation.

Section-B

2. How did the green revolution affect the diversity of food plants?
3. What is the bio-geographical classification of India?
4. "Taj Mahal is reported to be threatened by Mathura Refinery". Discuss the possible environmental threats that the refinery poses.
5. Describe the current status of the AIDS epidemic with particular reference to women and children.
6. What is meant by Environmental Impact Assessment? How it is conducted?

Section-C

7. Extinction is the ultimate fate of all species. Why then are we concerned about decline of biodiversity?
8. What is solid waste and why does it require management? How can solid waste recycled?
9. Write an essay on the impact of dams on people? What are the benefits and the negative impacts on people.

**Environmental Science
(CE-216, Dec 2007)**

Time: 3 Hrs

Max Marks: 60

Note: Section A is compulsory. Attempt any four questions from Section B and two from Section C.

Section-A

1. (a) Explain with diagram the structure and function of the environment.
(b) Define deforestation and its causes.
(c) Narrate the advantages and disadvantages of hydro power.
(d) What is the equitable use of resources?
(e) State biodiversity hot spot and on what basis a region is designated as hot spot.
(f) What is particulate matter? Give the prime sources of particulate matter.
(g) State the Rio declaration about the sustainable development.
(h) What are the impacts of human activities on water shed?
(i) What are the causes for formation of waste land?
(j) List the effect of population explosion.

Section-B

2. Discuss the causes for desertification and its measures.
3. Explain with neat sketch about the energy and nutrients flow through an ecosystem.
4. What do you know about Estuary? Explain the importance and features of the ecosystem.
5. Explain the role of disaster management in case of cyclones.
6. Describe the silent features of Environment Protection Act.

Section-C

7. How do you classify the factors responsible for relocation of people? Explain the problem and concerns about resettlement and rehabilitation of people.
8. (a) Explain the different types of biodiversity conservation techniques and their benefits.
(b) Write short note on renewable and non renewable energy resources.
9. (a) What do you know about ecological succession and explain its types?
(b) Explain the different stages of solid waste management.

Environmental Science
(CE-216, Dec-07)

Note: Section A is compulsory. Attempt any four questions from Section B and any two from Section C.

Section-A

1. a) Describe Fertilizer and pesticide problems.
b) Discuss effects of Dams on forest and tribal people.
c) Differentiate between soil erosion and desertification.
d) Discuss benefits of Dams.
e) Discuss various threats to Bio-diversity.
f) What are the causes of Soil pollution?
g) Explain the role of Information Technology in human health.
h) Define HIV/AIDS.
i) Discuss the use of Bio-energy as a non-conventional source of energy.
j) Define Forest and desert ecosystem.

Section-B

2. (a) What is acid rain?
(b) What are the adverse effects of acid rain?
3. Discuss the role played by the no-conventional energy resources towards the protection of the environment.
4. Describe ecosystem. Write short note on forest ecosystem and Grassland ecosystem.
5. Define causes, effects and control measures of urban and industrial wastes.
6. Write short notes on:
(a) Management of Municipal solid waste.
(b) Environmental scenario in India

Section-C

7. Define briefly environmental pollution and pollutants.
8. What do you mean by Sustainable Development? How is the concept of carrying capacity associated with it?
9. (a) What are the reasons for Depletion of Ozone layer?
(b) List the adverse effect of depletion of the ozone layer. Suggest measures to prevent it.

Roll No.

Total No. of Questions : 09]

[Total No. of Pages : 02

Paper ID [A0339]

(Please fill this Paper ID in OMR Sheet)

B.Tech. (Sem. - 6th/7th/8th)

ENVIRONMENTAL SCIENCE (CE - 216)

Time : 03 Hours

Maximum Marks :60

Instruction to Candidates:

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.
- 3) Attempt any **Two** questions from Section - C.

Section - A

Q1)

(10 × 2 = 20)

- a) Define Environment and Eco System.
- b) Differentiate between renewable and non-renewable resources giving examples of each.
- c) Define Biodiversity. How is it conserved?
- d) List two endangered and endemic species of India.
- e) What are the environmental effects of ground water exploitation?
- f) What is meant by Noise Pollution? How is it measured?
- g) Differentiate between natural and man made disasters.
- h) What is meant by population stabilisation?
- i) "Diminishing means and increasing wants are the two root causes of all environmental problems" Comment on the statement.
- j) Discuss the role of information technology in environment and human health.

Section - B

(4 × 5 = 20)

- Q2)** “Water is in a constant state of motion.” Elucidate with specific reference to hydrologic cycle. Also, establish the importance of water conservation.
- Q3)** Should we have big dams? List the arguments to substantiate your point.
- Q4)** Discuss the energy balance and Earth’s albedo with respect to atmospheric changes.
- Q5)** Discuss the energy flow through a desert ecosystem.
- Q6)** Discuss various control measures of air pollution.

Section - C

(2 × 10 = 20)

- Q7)** (a) Explain the concept of materials balance as applied to environmental systems.
- (b) What are the principles of sustainable development? How do we achieve it?
- Q8)** “Poor nations cannot afford the luxury of environmental control.” Discuss with respect to the difficulties in implementation of various environmental protection acts in India.
- Q9)** Write notes on :
- (a) Land degradation.
- (b) Eutrophication.
- (c) Water logging.
- (d) Wind energy.



Roll No.

Total No. of Questions : 09]

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[Total No. of Pages : 02

B.Tech. (Sem. - 6th)

ENVIRONMENTAL SCIENCE

SUBJECT CODE : CE - 216

Paper ID : [A0483]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.
- 3) Attempt any **Two** questions from Section - C.

Section - A

Q1)

(10 x 2 = 20)

- a) What are the causes of Environmental Pollution?
- b) Define the terms waste water reuse and waste water recycling.
- c) List out the harmful effects due to disposal of industrial waste without adequate treatment.
- d) What are the sources of air pollution?
- e) What is the Hardness of water?
- f) How is the economy affected by global warming?
- g) Define the term Biochemical Oxygen Demand (BOD).
- h) How can you minimize emissions that contribute to acid rain?
- i) What is the hydrological cycle?
- j) What is soil Erosion? Explain.

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Section - B

(4 x 5 = 20)

- Q2)** What are the main classes of air pollutants?
- Q3)** Discuss the pattern and the principles governing energy flow through an ecosystem.
- Q4)** What are the noise standards for occupational health and safety?
- Q5)** What is the requirement of good housing? Explain the criteria for good housing.
- Q6)** Discuss the objectives of major environmental acts in India's.

Section - C

(2 x 10 = 20)

- Q7)** What is the noise pollution? What are the effects of noise pollution and explain various methods to reduce the noise pollution.
- Q8)** Describe the various water pollution sources? What precaution should be taken to prevent pollution of water sources?
- Q9)** List the problem involved in the disposal of solid wastes. What is the role of the informal sector of municipal solid waste management?

