

**Question Bank**  
**Environmental studies (Th-5)**  
**FOR DIPLOMA IN CIVIL ENGINEERING**  
**3rd SEMESTER AS PER SCTE &VT SYLLABUS**



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# **ENVIRONMENTAL STUDIES**

## **QUESTION BANK**

### **CHAPTER – 1**

#### **THE MULTIDISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES**

##### **SHORT QUESTIONS (2 MARKS)**

1. Environmental Studies is multidisciplinary in nature. Account.
2. What are renewable resources? Give examples.
3. Discuss the need for the awareness of environmental studies program.
4. What is the importance of studying environmental studies as a core paper?
5. Explain sustainable development.

##### **LONG QUESTION (5 MARKS)**

1. What are natural resources. Give examples.
2. What are the physical, biological and cultural elements that constitute environment?
3. List out the scope of environmental studies.
4. What are non-renewable resources? Give examples

5. Environmental pollution cannot be prevented by laws alone. Discuss.

## NATURAL RESOURCES

### CHAPTER – 2

#### SHORT QUESTIONS (2 – MARKS)

1. What are renewable resources?
2. Describe non-renewable resources.
3. State biotic resources.
4. What are abiotic resources?
5. What are the commercial values of forest?
6. How does forest affect life and economy of tribes?
7. Explain the ecological uses of forest.
8. Enumerate aesthetic values of forest.
9. What is Jhum cultivation?
10. Write notes on Chipko movement.
11. What are renewable energy resources? Give examples.
12. What are non-renewable energy resources? Give examples.
13. List the advantages of using solar power over other forms of energy.
14. What is geothermal energy? What are its advantages?
15. List one advantage and one disadvantage of using wind as an energy resource.

16. What is soil erosion?
17. What do you mean by equitable use of resources?
18. What you mean by land as a resource?
19. List out the important cause of land degradation. What are its effects?
20. Define desertification.

### **LONG QUESTION (5 – MARKS)**

1. Differentiate renewable and non-renewable energy sources.
2. Write briefly on alternate energy sources
3. What are the advantages and disadvantages of hydrogen as a fuel?
4. What are the advantages and disadvantages of solar and wind energy?
5. Write a note on the conflicts over water.
6. Briefly describe the benefits and problems caused by dams.
7. Explain the use and exploitation of mineral resources.
8. Name the agencies that monitor food safety.
9. Why is food security important?
10. List out the effects of dams on forest and tribes .

### **LONG QUESTION (10 MARKS)**

1. Write notes on a) Renewable and non-renewable energy sources  
b) alternate energy sources.
2. Discuss the role of an individual in conservation of natural resources.

3. Describe the classification of natural resources and problems associated with natural resources.
4. How forests help to provide prosperity of human beings and to the nation?
5. What is deforestation? Enumerate causes and major effects of deforestation.

## CHAPTER – 3

## ECOSYSTEM

### SHORT QUESTIONS (2 MARKS)

1. What is an ecosystem?
2. Explain the structure of an ecosystem.
3. What are the functions of an ecosystem?
4. Which are the functional components of an ecosystem?
5. Write biotic components of an ecosystem.
6. What do you mean by 'web of life'?
7. What do you mean by ecological succession.
8. What is a desert ecosystem?
9. What are pelagic and demersal zones?
10. What is an estuary?

## LONG QUESTION (5 MARKS)

1. Enumerate the importance of Biodiversity.
2. What are the different biogeographic zones of India?
3. Write notes on species diversity of Himalayan zone.
4. Briefly describe "Trans Himalayan regions".
5. Explain the biodiversity of Western Ghats.
6. Discuss the biodiversity of Gangetic plains.
7. Write notes on species diversity of "Islands".
8. Enumerate the biodiversity of "Coast".
9. What are the consumptive use values of biodiversity?
10. Describe productive values of biodiversity.

## LONG QUESTION (10 MARKS)

1. Write an essay on Biogeographic classification of India and explain "Biodiversity at Global, National and local levels".
2. Enumerate major values of biodiversity. Explain with examples.
3. What are the threats to biodiversity. Write short notes on endemic species of India? Explain its significance
4. Discuss biodiversity conservation. Describe Ex-situ conservation and In-situ conservation in detail.

5. Describe different types of biodiversity conservation with examples.

## **CHAPTER – 4**

### **BIODIVERSITY AND IT'S CONSERVATION**

#### **SHORT QUESTION (2 MARKS)**

1. What do you mean by Hotspots?
2. Name the hotspot centers of India.
3. What are the reasons of habitat loss caused by humans?
4. Give the solutions for habitat loss.
5. What is poaching? How does it affect biodiversity?
6. Explain endangered species with two examples.
7. What is Red data book? Give its importance.
8. Describe endemic species. What is IUCN?
9. Name the in-situ conservation centers of India.
10. List the ex-situ conservation centers in India.

#### **LONG QUESTION (5 MARKS)**

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# CHAPTER – 5

## ENVIRONMENTAL POLLUTION

### SHORT QUESTIONS (2 MARKS)

1. Define pollutants. Give example.
2. What are contaminants? Give example.
3. List the main segments of atmosphere.
4. Define air pollution. List two important causes of air pollution.
5. What is blue baby syndrome? What are the causes
6. What is photochemical smog? Why it is dangerous?
7. Why is CFCs dangerous?
8. What are indoor air pollutants? Give examples.
9. Name two inorganic pollutants in water
10. What is noise pollution? Name the unit for measuring noise pollution.
11. What is vermin-composting?
12. What is primary pollutant? Give examples
13. Define water pollution
14. What is secondary pollutant? Give examples.
15. Differentiate point and non-point sources
16. What is greenhouse effect. How can it be reduced?
17. Suggest two control measures for marine pollution.
18. What are the essential qualities of drinking water?
19. What is marine pollution. How can it be reduced?

20. How is thermal pollution different from marine pollution?

### **LONG QUESTION (5 MARKS)**

1. What are the control measures adopted to minimize air pollution?
2. Discuss global warming and greenhouse effect.
3. What are the adverse effects of water pollution?
4. How can we control water pollution?
5. Differentiate between BOD and COD.
6. What is pollution? Explain the different sources of air pollution
7. Write briefly on marine pollution
8. What is biomagnification? What the effects?
9. What is noise pollution? How can it be controlled?
10. What are the health effects of noise pollution?

### **LONG QUESTION (10 MARKS)**

1. Analyze critically the factors responsible and remedial measures for a) air pollution b) noise pollution.
2. Explain the cause, effects and control measures of a) water pollution b) soil pollution
3. Outline the cause, effects and control measures of thermal pollution. How is it different from marine pollution?
4. What is nuclear pollution? Briefly describe its causes, effects and control measures.
5. Write an essay on the causes, effects and control measures employed for solid waste management.

## **CHAPTER – 6**

### **SOCIAL ISSUES AND THE ENVIRONMENT**

#### **SHORT QUESTIONS (2 MARKS)**

1. What individuals can do to preserve energy?
2. Why preservation of water is essential?
3. Define Rainwater harvesting.
4. What is Acid rain?
5. What is Ozone layer depletion?
6. What is global warming?
7. Explain Watershed Management.
8. What do you mean by resettlement?
9. What is Rehabilitation?
10. What are the main problems faced by the displaced?

#### **LONG QUESTION (5 MARKS)**

1. What are the reasons for the increase of energy consumption in urban areas?
2. Explain the need for Water conservation and its goals.
3. Why Rain water harvesting is important?
4. Write importance of watershed management.
5. Write a short note on objectives of rehabilitation policy.

6. Briefly state the ethical principles related to the environment and what are its solutions?
7. Explain the effects and strategies to control climate change.
8. Describe the need for public awareness to protect our environment.
9. Comment on global warming & its effects.
10. What are the causes and effects of acid rain?

### **LONG QUESTION (10 MARKS)**

1. Discuss various environmental protection act in India related to air and water.
2. Explain forest and wild life environmental protection act.
3. Analyze various environmental issues related to climate change, global warming and acid rain.
4. Explain the concept of 'Environmental Ethics', its issues and possible solutions.
5. What is Resettlement and Rehabilitation? Discuss the reasons and problems related to Resettlement and Rehabilitation policies in India.

## CHAPTER – 7

### HUMAN POPULATION AND THE ENVIRONMENT

#### SHORT QUESTIONS (2 MARKS)

1. What do you mean by Human Rights?
2. What is Collective-developmental generations of human right?
3. Name 4 UN office Systems that protect human rights.
4. Write the role “Human Rights Up Front Initiative”.
5. Write a note on UNICEF.
6. What is UDHR?
7. What you mean by Fundamental Rights?
8. List out 6 fundamental human rights.
9. Explain Right to equality.
10. Write any 3 disadvantages of nuclear power generation.

#### LONG QUESTION (5 MARKS)

1. Explain the three generations of human rights.
2. Briefly write functions of UNSECO and UNICEF.
3. What is ILO and write its functions?
4. Write a note on WHO.
5. Write about the Universal Declaration of Human Rights.
6. Discuss on “Declarations for Women and Children”.
7. Write constitutional privileges for Women and Children.

8. Write constitutional privileges for Scheduled Caste and Scheduled Tribes.
9. What are the causes of industrial pollution?
10. How is chemical energy utilized?

### **LONG QUESTION (10 MARKS)**

1. Discuss the Fundamental Rights guaranteed in our Indian Constitution.
2. Briefly write various UN agencies that stand for humanist missions.
3. Outline the causes of industrial pollution and the measures to be taken to control it.
4. What are the advantages and disadvantages of using (i) nuclear energy (ii) chemical energy?
5. Write explanatory notes on (i) Environment and Human rights (ii) Rights for women and children in India.

