

# Unit -I

## Man and Environment

### Chapter 1: DIMENSIONS OF THE ENVIRONMENT

#### *Questions*

**Answer the following questions in 80 words each:**

#### **Chapter 1**

1. Write a brief note on Man – Environment relationship.
2. Can the human race survive without the Environment? Discuss.
3. Write a short note on the Lithosphere.
4. Describe the Hydrosphere.
5. Write a few lines about the Water Cycle.
6. What is Atmosphere? Mention the composition of gases in the atmosphere.
7. Describe the different layers of the Atmosphere.
8. Write a short note on the Earth's Biosphere.
9. What is a biogeo-chemical cycle? Give 2 examples.
10. How are human activities harming the environment?

#### **Chapter 2**

1. Explain the concept of Environmental stakeholders.
2. Write briefly about any two categories of Environmental stakeholders.
3. Write a note on Affected Parties in the context of Environmental Stakeholders.
4. Write a note on Risk Losers in the context of Environmental Stakeholders.
5. In the context of Environmental Stakeholders, people may be both Risk Losers as well as Risk Gainers. Explain.
6. Describe the benefits of involving multiple stakeholders in a project that affects the environment.
7. Write a short note on 'formal stakeholders analysis'.
8. Explain the concept of "3 Rs" approach in stake analysis.
9. Write briefly about the Taj Trapezium case in the context of Environmental Stakeholders.
10. Write a few lines about the Singur Tata Motors controversy OR the Sterlite agitation.

### **Chapter 3**

1. Explain the term 'Population Explosion'.
2. State any 3 causes of Population Explosion.
3. How does improved life expectancy contribute to population growth?
4. Write a few lines about Infant Mortality Rate.
5. Write any 3 consequences of high population growth?
6. Is there a link between Population Explosion and poverty? Explain.
7. How does Population Explosion lead to the over exploitation of natural resources?
8. Why is population control a complex issue?
9. Mention some measures to check population growth.
10. Is the growth of population a boon or a bane? Explain.

# Unit -II

## Environment and Development

### Chapter 1:FACTORS AFFECTING DEVELOPMENT

#### *Questions*

**Answer the following questions in 80 words each:**

#### **Chapter 1**

1. What is Development?
2. How do physical factors in a region affect development ?
3. How do economic factors affect development?
4. How do social factors affect development?
5. Name some social ills which prevent development.
6. What is child labour? How can it be prevented?
7. What are the ill effects of child marriage?
8. How can child marriages be prevented?
9. How can illiteracy be eradicated?
10. What are some of the causes of poverty?

#### **Chapter 2**

1. State any four ill effects of Development on the environment.
2. Why are lakes and rivers getting polluted?
3. Why is it difficult to implement pollution control measures?
4. What is the impact of urbanization and population growth on the environment?
5. What is the impact of industrialization on the environment?
6. What are the ill effects of commercial farming and livestock on the environment?
7. How are animals affected by illegal hunting?
8. How does commercial fishing affect marine life?
9. Explain the term 'sustainable development'.
10. Should development take place at the cost of damage to the environment? Explain.

#### **Chapter- 3**

1. Mention any 3 objectives of the Telangana Agriculture Development Vision.
2. Mention any 3 steps taken by the Telangana government to promote industry.
3. Write a few lines about Agriculture in Telangana.
4. Write a few lines about the Mining Industry in Telangana.
5. Write a few lines about the I.T industry in Telangana.
6. List any 3 salient features of TSiPass.
7. Write a note on the Pollution Clearance policy of the Telangana government.

8. Mention any 4 services covered under the Services Sector.
9. Write a note on Tourism in Telangana.
10. Write a few lines on Development in Telangana.

# Unit -III

## Environmental Pollution and Global Issues

### Chapter 1: TYPES, SOURCES AND EFFECTS OF POLLUTION

#### *Questions*

**Answer the following in 80 words each:**

#### **Chapter 1**

1. What is Environmental Pollution? What are the different types of pollution?
2. Write a short note on the effects of air pollutants.
3. How can air pollution be controlled ?
4. How can noise pollution be controlled ?
5. What are the causes of water pollution ?
6. What are the effects of water pollution?
7. What are the causes of soil pollution?
8. Write a few lines on plastic pollution.
9. Write short notes on a) biomedical waste b) 'e' waste
10. What is waste management? How can we segregate waste at home?

#### **Chapter 2**

1. What are disasters? How are they broadly classified?
2. What are natural disasters? Give 3 examples.
3. What are man made disasters ? Give 3 examples.
4. Write a few lines about the damage caused by earthquakes.
5. Write a note on biological warfare.
6. What is Disaster Management?
7. What steps should be taken during a cyclone?
8. What precautions should one take when there is a heat wave?
9. List some safety measures that should be taken during an earthquake.
10. Write a few lines about the Bhopal Gas Tragedy **or** any other global environmental disaster.

### **Chapter 3**

1. What are some of the pressing global environmental issues?
2. What is global warming?
3. Write a small paragraph about Loss of Biodiversity.
4. Write a few lines on Ocean Acidification
5. Explain the term 'Genetically Modified Foods'.
6. Write a few lines about Public Health Issues.
7. What is ozone depletion?
8. Write a few lines on acid rain.
9. Explain the term 'Urban Sprawl.'
10. How does deforestation damage the environment?

# Unit -IV

## ENERGY

### Energy Is Life - Conserve It

#### **Chapter 1: DEMAND FOR ENERGY AND ENERGY CONSUMPTION PATTERNS**

##### *Questions*

**Answer the following in 80 words each:**

##### **Chapter 1**

1. What is energy consumption? What are the four economic sectors of energy consumption?
2. Write a few lines about Energy consumption in the Residential sector.
3. Write a few lines about Energy consumption in the Industrial sector.
4. Explain the term 'Global Energy Consumption'. Name two important factors which affect global consumption of energy.
5. How does growth in population affect global consumption of energy?
6. How does an improvement in standards of living affect global consumption of energy?
7. Write a few lines about Energy Consumption in India.
8. Mention any three predictions made about energy needs and consumption in the next few decades.
9. Write short notes on Energy Consumption in the Transportation sector.
10. Why are the energy needs of countries like India and China increasing?

##### **Chapter 2**

1. Explain the term 'Conventional Energy Source'. Why are fossil fuels classified as a conventional source of energy?
2. What is the difference between Renewable and Non-Renewable sources of energy? Give 3 examples of Renewable sources of energy.
3. Write a few advantages and disadvantages of Renewable Sources of Energy.
4. Write a few lines about the advantages and disadvantages of solar energy.
5. Write a few lines about the advantages of hydro-electric projects.
6. Write a few lines about biomass energy.
7. What are some disadvantages of Biomass Energy ?
8. What are some advantages of wind energy? Which state in India has the largest wind farm?
9. How is the environment affected by hydroelectric projects?
10. What are the hazards of living near a nuclear plant?

### **Chapter 3**

1. What is Energy Conservation? Why is energy conservation necessary?
2. Explain the term 'carbon footprint'.
3. Mention 4 ways that you can conserve energy at home.
4. Explain how carpooling and cycling help to conserve energy.
5. How do trees help in the conservation of energy?
6. Explain the concept of Zero Energy Balance Construction.
7. What is energy audit? Explain how it helps in energy conservation.
8. What is Green Building Concept? Mention 2 ways in which houses can be made more energy efficient.
9. Discuss the importance of education in energy conservation.
10. Why should eco-friendly products also be cost effective? What steps can the government take to promote eco-friendly goods and services?

# Unit -V

## Bio Diversity

### Chapter 1: CONCEPT, TYPES AND THREATS TO BIO DIVERSITY

#### *Questions*

Answer the following questions in 80 words each

#### Chapter 1

1. Define Biodiversity.
2. What is an ecosystem?
3. What are the four levels of biodiversity?
4. Write a few lines on species diversity **or** gene diversity.
5. Do organisms depend on each other in an ecosystem? Explain with an example.
6. What are some causes for the loss of biodiversity?
7. Why is India called a mega biodiversity country?
8. How have Recreation and Leisure activities damaged biodiversity?
9. Write a few lines about how terrestrial life is being threatened by human activities.
10. Write a few lines about how marine life is being threatened by human activities.

#### Chapter 2

1. How do primitive tribes tap the consumptive value of biodiversity?
2. How does biodiversity increase the economic profits of man?
3. In what ways does man seek enjoyment and aesthetic pleasure from biodiversity?
4. Explain how man derives commercial benefits from biodiversity.
5. What is biomimicry? Give an example to show how scientific inventions can be modelled on nature.
6. Write a short note on the ethical dimension of biodiversity. Should man destroy organisms which are not useful to him?
7. Describe how biodiversity holds educational and scientific value for man.
8. 'Biodiversity is essential for maintaining the delicate balance of ecosystems'. Explain.
9. Give examples to illustrate the cultural and social aspects of biodiversity.
10. In your opinion what is the most useful aspect of biodiversity to man? Why?

### Chapter 3

1. What is Conservation of Biodiversity?
2. What is in-situ conservation? Give 2 examples.
3. Mention any 4 in-situ conservation strategies.
4. Write a note on wildlife sanctuaries OR national parks.
5. What is ex-situ conservation of biodiversity?
6. List any 4 ex-situ conservation strategies.
7. Write a note on gene bank OR field gene bank.
8. What are the 3 goals listed in the Biodiversity Convention in the Earth Summit at Rio de Janeiro, Brazil, in 1992?
9. What is People's Biodiversity Register?
10. Write the importance of the *Haritha Haram* Project.

# Unit -VI

## Environmental Management

### Chapter 1: ENVIRONMENTAL IMPACT ASSESSMENT (EIA)

#### *Questions*

Answer the following questions in 80 words each:

#### Chapter 1

1. What is Environmental Management?
2. Write a few lines about Environment Impact Assessment.
3. What is Environment Impact Statement?
4. List some aspects that are studied in Environment Impact Statement.
5. What is done after the draft of the Environment Impact Statement is prepared?
6. Write a note on the methodology of Environment Impact Assessment.
7. What type of projects are considered for category A projects for Environmental Impact Assessment?
8. What type of projects are considered for category B projects under Environmental Impact Assessment?

#### Chapter 2

1. Explain the term 'particulate matter'.
2. Write a note on Particulate Matter treatment equipment **or** How is biomedical waste segregated?
3. What are the treatment processes of wastewater? **or** What is e-waste and how can it be disposed of safely?
4. How can vehicular emissions be reduced? **or** Write a short note on sewage waste water treatment.
5. What is source reduction and re-use in the context of waste management?
6. How should biomedical waste be disposed of?
7. What is meant by Integrated Solid Waste Management?
8. How should hazardous waste be disposed of?
9. What are hazardous substances? Give 3 examples of domestic sources of hazardous waste.
10. How should nuclear waste be disposed of?

### **Chapter 3**

1. What is Environmental audit?
2. What are the objectives of an environmental audit?
3. Name 4 types of environmental audit.
4. How is Waste audit conducted?
5. Write a note about Management audit.
6. What is Energy audit?
7. What is Health and Safety audit?
8. What are the uses of Compliance audit?
9. Write a note on Liabilities Definition audit.
10. What is Property Transfer audit?

# Unit -VII

## Sustainable Development

### Chapter 1:WHAT IS SUSTAINABLE DEVELOPMENT

#### *Questions*

Answer the following questions in 80 words each

#### Chapter 1

1. Explain the concept of Sustainable Development.
2. List some threats to sustainable development.
3. Write 4 strategies for the implementation of sustainable development.
4. Explain the concept of Sustainable Consumption.
5. Resource conservation is an important option for sustainable development. Explain.
6. Write any 3 policy options that will help in sustainable development.
7. Explain the relevance of Sustainable Development in the context of food consumption in the present day.
8. Explain the relevance of Sustainable Development in the context of food **or** water consumption in the present day.
9. Explain the concept of a Low carbon life style.
10. Write a few initiatives that can be taken in daily life for a low carbon life style.

#### Chapter 2

1. What is the importance of the Stockholm Declaration in 1972?
2. Explain the difference between Protectionist policy and Improvinistic policy in the context of environmental protection.
3. What can individuals do to prevent Water pollution?
4. What can individuals do to control Air pollution?
5. Write a few lines on Noise Pollution (Regulation and Control) Rules 2000?
6. Write any 3 functions of the Central Pollution Control Board (CPCB).
7. Write any 3 functions of the Telangana State Pollution Control Board (TSPCB).
8. What can citizens and action groups do to protect the environment?
9. Write a few lines about the National Environment Tribunal Act, 1995.
10. Write a note on the National Green Tribunal.

### **Chapter 3**

1. What is the importance of the Stockholm declaration 1972 ?
2. Write a short note on the Brundtland commission 1983.
3. Write 3 goals described in the 'Rio Concept'.
4. In what way was the Kyoto Protocol, 1997 different from earlier treaties on climate change?
5. Which environmental issue received special attention in the Montreal Protocol 1987?
6. What is the significance of the Montreal Protocol 1987?
7. Write briefly about Millennium development goals.
8. Write a few lines about the United Nations conference on sustainable development (Rio + 20)?
9. Which environmental issue received special attention at the Paris Protocol 2015?
10. To what extent are international conferences and treaties useful in solving global environmental issues?

# Unit -VIII

## Sustainable Agriculture

### Chapter 1: CONVENTIONAL PRACTICES OF AGRICULTURE

#### *Questions*

Answer the following questions in 80 words each

#### Chapter 1

1. What is Agriculture? How did it change the life of Primitive Man?
2. Write any 3 characteristics and 3 advantages of Conventional farming.
3. List out any 4 types of Conventional farming.
4. Write a few lines about Intensive Commercial farming.
5. What is Extensive Commercial farming?
6. Give a brief account of Co-operative farming.
7. Write a note on Shifting Agriculture.
8. Mention any 4 adverse effects of Conventional agricultural on the environment.
9. Mention any 3 negative effects of Commercial agriculture on human and animal health.
10. Mention any 3 socio- economic concerns of Conventional agricultural practices.

#### Chapter 2

1. What is Sustainable agriculture? List any 4 Principles of sustainable agriculture.
2. Mention any 4 methods of Sustainable agriculture.
3. Describe, in brief, any 4 advantages of organic farming.
4. How is organic farming different from conventional farming?
5. Write a note on Crop Rotation **or** Cover crops.
6. What is Mulching? Why it is used?
7. What is Agroforestry?
8. Write a few lines about Integrated Pest Management.
9. Write a note on urban farming.
10. What is Permaculture? **or** Write a note on Hydroponics.

### **Chapter 3**

1. Why is management of agriculture produce important?
2. What is the difference between Food loss and Food waste?
3. List 4 causes of harvest loss.
4. Write a few lines about Post Harvest Loss (PHL).
5. List out any 4 Pre-Harvest management methods.
6. List out any 4 Management practices during harvesting of crops.
7. What management techniques would you suggest to reduce Post harvest losses?
8. Write any 4 Prepackage management practices to reduce harvest loss.
9. What are some major initiatives taken by the government of India in the agricultural sector?
10. Write any 4 good storage management practices of agricultural produce.

## **ESSAY QUESTIONS BASED ON ALL THE UNITS IN THE TEXT BOOK**

*Answer the following questions in about 250 words each*

1. Write a brief essay about the Dimensions of the Earth's environment.
2. What are the advantages of stakeholder participation in environmental issues?
3. What are the causes and consequences of Population Explosion?
4. Discuss some of the social ills which hinder development in India.
5. Write a brief essay about industrial development in Telangana.
6. How are human activities causing damage to the environment?
7. Discuss the causes and effects of any three types of pollution.
8. Write a brief essay about natural and man-made disasters.
9. What are some of the pressing global environmental issues?
10. Write an essay about Renewable sources of energy.
11. Discuss some measures of energy conservation.
12. What are the causes of loss of Biodiversity?
13. Discuss the benefits of Biodiversity.
14. Discuss important in-situ and ex-situ modes of Biodiversity conservation.
15. Write short notes on a) Swachh Bharat Abhiyan b) Environment Impact Assessment
16. Write an essay on municipal solid waste disposal OR biomedical waste disposal
17. Write an essay about various kinds of environmental audits.
18. Explain the concepts of Sustainable Development and Sustainable Consumption.
19. How can individuals prevent air pollution, water pollution and noise pollution?
20. Write an essay on any three global conferences on environmental issues.
21. Write an essay about Conventional farming practices and their impact on the environment.
22. Describe a few methods of sustainable agriculture.
23. Describe some management practices before, during and after the harvesting of crops.

# MODEL QUESTION PAPER

## INTERMEDIATE PUBLIC EXAMINATION

### ENVIRONMENTAL EDUCATION w.e.f. 2018-19

(Compulsory Qualifying Examination for 1st Year Students)

Time :3 Hours

Maximum Marks : 60

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**NOTE:** Answer ANY TWELVE (12) Questions in about 80 words each.

Attempt at least ONE question from EACH section.

**12×5=60 Marks**

#### SECTION-A

1. Write a short note on the Earth's Biosphere.
2. State any 3 causes of population explosion.

#### SECTION-B

3. Name some social ills which prevent development.
4. Write a few lines about the I.T industry in Telangana.

#### SECTION-C

5. Write a few lines on plastic pollution.
6. What are man made disasters ? Give 3 examples.

#### SECTION-D

7. Write a few lines about the advantages and disadvantages of solar energy.
8. Explain the term 'carbon footprint'.

#### SECTION-E

9. What are some causes for the loss of biodiversity?
10. In what ways does man seek enjoyment and aesthetic pleasure from biodiversity?

#### SECTION-F

11. What is the objective of Clean India Mission or Swachh Bharat Abhiyan?
12. How is biomedical waste disposed?

#### SECTION-G

13. Explain the concept of a Low carbon life style.
14. Which environmental issue received special attention in the Montreal Protocol 1987?

#### SECTION-H

15. Mention any 4 methods of Sustainable agriculture.
16. List 4 causes of harvest loss.

