



III / SEM / COMM / 2019 (W)

[05-12-2019, REG]

ENVIRONMENTAL STUDIES

Sub Code – THEORY - 5

Full Marks: 80

Time: 3 hours

Answer any **FIVE** Questions including Q. No 1 & 2

The figures in the right-hand margin indicate marks

Q1. Answer ALL the questions.

- (a) Define renewable energy resource with any two suitable examples.
- (b) Define environment.
- (c) What do you mean by decomposers?
- (d) What do you understand by the term 'Poaching of wild life'?
- (e) Write any two consequences of noise pollution.
- (f) What is the major drawback of nuclear power generation?
- (g) What are the major reasons for population explosion?
- (h) Define energy flow in ecosystems.
- (i) What is energy cropping?
- (j) What do you mean by endangered species?

Q2. Answer any SIX questions.

- (i) Give a brief account of 'justification for awareness about environmental value education'.
- (ii) Discuss about rain water harvesting.
- (iii) Distinguish between 'Ex-situ' and 'In-situ' conservation.
- (iv) Explain biomagnifications with a case study.
- (v) Discuss the effects of use of excessive fertilizers and pesticides in crop fields.
- (vi) Explain conflicts over water with a case study.
- (vii) What precautionary measures should be taken during earthquake?

Q3. Explain how habitat loss is a major threat to biodiversity.

Q4. Explain the sources of solid wastes and solid waste management.

Q5. Discuss the role of an individual in conservation of natural resources.

Q6. Describe the causes and rehabilitation of the displaced people.

Q7. Write short notes on

- (a) 'mortality'
- (b) 'natality'.

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V / SEM / COMM / 2019 (W)

[27-11-2019, REG]

ENVIRONMENTAL STUDIES

Sub Code – BST 501

Full Marks: 80

Time: 3 hours

Answer any **FIVE** Questions including Q. No 1 & 2*The figures in the right-hand margin indicate marks*

1.	Answer ALL the questions: (a) Define Environment. (b) What is Deforestation? (c) What are Renewable & Non-renewable energy sources? (d) Define Eco-system. (e) Define Food Chain & Food Web. (f) What is Bio-diversity? (g) Define Environmental Pollution. (h) What is Solid-Waste Management? (i) Define Green House Effect. (j) What are the various objectives of Family Welfare Programmes?	2×10
2.	Answer any SIX questions: (a) How is Public Awareness necessary to protect our environment? Describe briefly. (b) Describe the various causes of Deforestation. (c) What is meant by Eco-system? Classify and explain the various types of Eco-systems. (d) Give a brief description of Man-Wildlife Conflict. (e) What do you understand by Water Pollution? What are the various types of Water Pollutants? Explain in brief. (f) What is Rain Water Harvesting? State the main objectives of Rain Water Harvesting. (g) What are the Important Values of Value Education?	5×6
3.	(a) Write the components of Environment? (b) Give a detailed description about the Mineral Resources of India.	10
4.	(a) What is Land Degradation? What are the causes of Land Degradation? (b) Describe the role of an Individual in Conservation of Natural Resources.	10
5.	(a) What is Ecological Pyramid? (b) Write about various types of Ecological Pyramids depending upon different criteria with neat figures.	10
6.	(a) What is Disaster Management? (b) What is World Food Problem? Explain in detail.	10
7.	(a) What do you mean by Incineration & Pyrolysis? (b) What is Soil Pollution? Describe the Effects & Control Measures of soil pollution in detail.	10



VI / SEM / COMM / 2019 (W) [26-11-2019, EX-REG]
ENVIRONMENTAL STUDIES

Sub Code – BST 501

Full Marks: 80

Time: 3 hours

Answer any **FIVE** Questions including Q. No 1 & 2
The figures in the right-hand margin indicate marks

- Q1. Answer all the questions. [2x10]
- What is photochemical smog?
 - Define ecosystem.
 - What is captive breeding?
 - What do you mean by biocides?
 - What is a wasteland?
 - Define Emigration.
 - What is hydrosphere?
 - What is food web?
 - Define alpha diversity.
 - What is mixed cropping?
- Q2. Answer any *six* questions from the following. [5 x 6]
- Discuss in brief 'Ecological pyramid'.
 - Write a short note on 'acid rain'.
 - Describe the effects of mining practices on tribal people and on the environment.
 - Explain how 'Environmental studies' is multidisciplinary in nature.
 - How wild life was conserved in ancient India?
 - Write a short note on global warming.
 - Discuss the factors which affect population distribution?
- Q3. What is noise? What are the major causes of noise pollution? How can it be prevented? [2+4+4]
- Q4. Discuss different methods adopted for conservation of biodiversity. [10]
- Q5. Describe different components and functions of forest ecosystem. [10]
- Q6. Discuss different methods and advances of rain water harvesting. [10]
- Q7. Discuss the effects of construction of dams on tribal people and on the environment. [10]

Collected By:-

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V / SEM / COMM / 2019 (S)

[21-05-2019, EX-REG]

ENVIRONMENTAL STUDIES

Sub Code – BST 501

Full Marks: 70

Time: 3 hours

Answer any **FIVE** Questions

The figures in the right-hand margin indicate marks

1. (a) What is Aquatic Ecosystem ? 2
(b) Explain the function of food-chain in Ecosystem. 5
(c) Explain the different component of an Ecosystem. 7
2. (a) What is Air Pollution ? 2
(b) Explain various causes of air pollution. 5
(c) Explain various methods to control air pollution. 7
3. (a) What is water-pollution ? 2
(b) Explain different cause of water pollution ? 5
(c) Explain different steps control water pollution. 7
4. (a) What is disaster management ? 2
(b) Explain major components of environment pollution. 5
(c) What is global warming ? Explain its effect on mankind. 7
5. (a) Define Green Technology. 2
(b) Explain the function of Bio-diversity. 5
(c) Explain various steps to control solid waste management. 7
6. (a) Define Noise pollution. 2
(b) Explain noise rating system. 5
(c) Explain various methods to control noise pollution. 7
7. (a) What is Renewable Energy ? 2
(b) Explain various source of renewable energy ? 5
(c) What is acid Rain ? Explain its effect on environment. 7

Collected By:-

*Er. Paramananda Gouda
(Dept. of ETC, UCP Engg School)*



VI / SEM / COMM / 2019 (S)

[01-05-2019, REG]

ENVIRONMENTAL STUDIES

Sub Code – BST 501

Full Marks: 70

Time: 3 hours

Answer any FIVE Questions

The figures in the right-hand margin indicate marks

1. (a) Define an ecosystem. 2
(b) What do you mean by food chain and foodweb? 5
(c) What are ecological pyramids? Why the pyramids of energy provides the best graphical representation of ecosystem? 7
2. (a) Define over grazing. 2
(b) Explain deforestation. Discuss its causes and control measures. 5
(c) What are the mineral resources in India and mention its types? How mining effects the environment? 7
3. (a) Define biological diversity. 2
(b) What do you mean by genetic, species and ecosystem diversity? 5
(c) What measures/strategies should be adopted for habitant conservation in developing countries? 7
4. (a) Discuss the role of an individual in prevention of pollution. 2
(b) Discuss rain water harvesting. What are the advantages of this technique? 5
(c) What do you understand by climate change? Describe the role of public awareness in environment protection. 7
5. (a) Write short note on world food problem. 2
(b) Explain the importance of family welfare programs. 5
(c) What do you mean by human rights and explain the fundamental human rights? 7
6. (a) What do you mean by global warming? 2
(b) Discuss the role of information technology in “environment & human health”. 5
(c) Explain the various causes of water pollution. Discuss their effects and measures to control them. 7
7. Write short notes on : $3\frac{1}{2} \times 4$
 - (i) Food chain
 - (ii) Solid waste management
 - (iii) Ozone layer depletion
 - (iv) Radioactive pollution.

**V/Sem/COMMON/2018(W)(New)****[Code – BST - 501]****Full Marks : 70****Time : 3 Hours**Answer any **five** questions.

Figures in the right-hand margin indicate marks.

1. (a) Define autoecology. [2]
(b) Discuss the role of information technology in environment and human health. [5]
(c) Write the hazards associated with radioactive pollution. [7]
2. (a) What are detritivores ? Give examples. [1+1]
(b) Explain, the methods employed for control of noise pollution. [5]
(c) Write notes on endangered and endemic species. [7]
3. (a) What are hotspots of biodiversity ? [2]
(b) Show that, equitable use of natural resources is the need for sustainable life style. [5]
(c) What is watershed management ? Write its objectives and major steps taken to carry out ? [7]
4. (a) What do you mean by waste land reclamation ? [2]
(b) What are the effects of modern agriculture on world food resources ? [5]
(c) Explain the energy flow in ecosystem and show that it is unidirectional. [7]
5. (a) What are hazardous wastes ? [2]
(b) What are mineral resources ? Write the various adverse effects of mining. [5]
(c) Give a comparison between ex-situ and in-situ conservation of bio-diversity. [7]
6. (a) What is gene pool ? [2]
(b) What are the effects of thermal pollution ? [5]
(c) Explain the structure and characteristics of grass-land ecosystem ? [7]
7. (a) What is photochemical smog ? [2]
(b) What are significant contributions and effects of dams ? [5]
(c) Write the features of The Air (Prevention and Control of pollution) Act, 1981. [7]

V/Sem/COMMON/2017(W)(New)**[Code : BST - 501]****Full Marks : 70****Time : 3 Hours**Answer any **five** questions.*Figures in the right-hand margin indicate marks.*

1. (a) Define the term 'Ecology'. [2]
(b) Write a short note on "Public awareness to protect out environment". [5]
(c) Describes the impact of modern agricultural practices on environment. [7]
2. (a) Define the term "Environment". [2]
(b) Explain the three general types of Ecological pyramids. [5]
(c) What are the causes and effects of Deforestation ? [7]
3. (a) Define the term "Biodiversity". [2]
(b) What are the effects of over grazing ? [5]
(c) Write a short notes on : [7]
(i) Effects of air pollution.
(ii) Measures to check air pollution.
4. (a) What is environmental pollution ? [2]
(b) What are the major threats to biodiversity ? [5]
(c) Write an essay on "Global Warming". [7]
5. (a) What is population explosion ? [2]
(b) Explain the structure of an Ecosystem. [5]
(c) Write the role of information technology in environmental studies. [7]
6. (a) What is acid rain ? [2]
(b) Describe the values included in value education. [5]
(c) What is rain water harvesting ? Write its advantages. [7]
7. (a) What do you mean by sustainable development ? [2]
(b) How is food chain different from food web ? [5]
(c) State and explain the renewable and non-renewable natural resources. [7]

**VI – SEM/Common/2016 (W) (New)**

(Sub Code : BST-501)

Full Marks : 70 Time : 3 Hours

Answer any five questions.

The figures in the right-hand margin indicate marks.

1. (a) What is acid rain ? [2]
(b) Write function of food chain and food webs in ecosystem. [5]
(c) Write notes on ecosystem and terrestrial ecosystem. [7]
2. (a) What is water harvesting ? [2]
(b) What are solid waste pollution ? How are they disposed of ? [5]
(c) What is air-pollution ? What are its effect ? Explain the control strategies. [7]
3. (a) What do you mean by biotic components of ecosystem ? [2]
(b) How does pollution of marine ecosystem takes place ? What steps are taken for its control ? [5]
(c) Write the role of an individual in conservation of natural resources. [7]
4. (a) What are 3R ? [2]
(b) Explain structure of an ecosystem. [5]
(c) Write down role of information technology in environment and human health. [7]
5. (a) What is environmental studies ? [2]
(b) Write short notes on renewable and non-renewable resources. [5]
(c) What are environmental effects of extracting and using mineral resources ? [7]
6. (a) Define sustainable development. [2]
(b) What is population explosion ? State its adverse effects. [5]
(c) State the effect of noise. How noise pollution can be controlled ? [7]
7. (a) Define source of energy. [2]
(b) Write short note on food resources. [5]
(c) What is biodiversity ? Write down values of biodiversity. [7]

V/SEM/COMMON/2016(S)(NEW)

[Sub Code : BST - 501]

Full Marks : 70 Time : 3 Hours

Answer any five questions.

The figures in the right-hand margin indicate marks.

1. (a) What are endemic species ? Give examples. [2]
(b) Write the various sources of hazardous wastes. [5]
(c) Discuss the Environmental Protection Act, 1986 in briefly. [7]
2. (a) What are ecological pyramids ? [2]
(b) Show that India is a mega-biodiversity nation. [5]
(c) Explain, briefly about wasteland reclamation. [7]
3. (a) Define BOD and COD of water. [2]
(b) Write the various methods adopted to control noise. [5]
(c) Explain the structure and characteristics feature of grassland ecosystem. [7]
4. (a) What are secondary pollutants ? Give examples. [2]
(b) Explain, about the productive and aesthetic values of biodiversity. [5]
(c) What is thermal pollution ? Write the various methods adopted to control it. [7]
5. (a) Define ex-situ conservation. [2]
(b) Write the role of information technology in environmental and human health. [5]
(c) Write functions of Cottrell's electrostatic precipitator and cyclone separation in prevention of air pollution. [7]
6. (a) What is poaching of wildlife ? [2]
(b) Write the need of equitable use of resources for sustainable life style. [5]
(c) Discuss the salient features of Wildlife Protection Act, 1972. [7]
7. (a) What are producers and decomposers ? [2]
(b) Write the significant contributions of dams to human needs. [5]
(c) Briefly, explain about the various renewable energy resources and their fields of applications. [7]

SET - 1

(Theory - 5)

Full Marks - 80

Time - 3 Hours

Answer any five questions including Q. No. 1 & 2.
The figures in the right-hand margin indicate marks.

1. Answer all questions : [2 × 10 = 20]
 - (a) Define the "Source of Energy".
 - (b) What is Green Technology ?
 - (c) What is Water-Pollution ?
 - (d) What is life cycle assessment ?
 - (e) What do you mean by environmental audit ?
 - (f) Why is ozone important ?
 - (g) What is acid rain ?
 - (h) What is Environmental Pollution ?
 - (i) What is Aquatic Ecosystem ?
 - (j) What is food chain ?
2. Answer any six questions. [6 × 5 = 30]
 - (a) Explain the important of solar energy.
 - (b) What are the various gas pollutant ?
 - (c) Explain the different components of water pollution.
 - (d) How air pollution is accountable for ill-health ?
 - (e) How water pollution is the cause of water borne diseases ?
 - (f) What is radiation pollution ?
 - (g) Write the importance of Environmental studies.
 - (h) Explain the present status of Air-Pollution.
3. What is Geo-thermal Energy ? Explain the uses of geo-thermal energy for electricity generation. [10]
4. Explain the different components of an Eco-system. [10]
5. Describe the various methods of controlling Air-pollution from the Industry. [10]
6. How environmental education will help in nature of environment ? [10]
7. What is air-pollution ? What are its effects ? Explain the control strategies. [10]

SET - 2

(Theory - 5)

Full Marks - 80

Time - 3

Hours

Answer any five questions including Q. No. 1 & 2.
The figures in the right-hand margin indicate marks.

1. Answer all questions : [2 × 10 = 20]
 - (a) What is Aquatic Ecosystem ?
 - (b) What is food chain ?
 - (c) What is Air-Pollution ?
 - (d) What is ozone pollution ?
 - (e) What are nuclear fall-out ? What is its effect ?
 - (f) What are the harmful consequences of excessive noise ?
 - (g) What is ecological balance ? Why is it necessary ?
 - (h) What is meant by Global Warming ? What are its effects ?
 - (i) What is water harvesting ?
 - (j) Define 'Noise-Pollution' ?
2. Answer any six questions. [6 × 5 = 30]
 - (a) Write the function of food-chain and food webs in Ecosystem.
 - (b) Explain the present status of Air-Pollution.
 - (c) Describe the forest as an ecosystem.
 - (d) How education can be used to save environment ?
 - (e) State the feasibility of "sustainable development" seeks to strike a balance between economic progress and environment protection.
 - (f) Write a notes on Biodiversity.
 - (g) Explain the important of solar energy.
 - (h) Explain, the methods employed for control of noise pollution.
3. Explain the structure of an Eco-system. [10]
4. What is Green-house effect ? How does it cause global warming ? [10]
5. Write the different methods for controlling Water-Pollution ? [10]
6. What is the necessity of environmental legislation ? [10]
7. What is plastic pollution ? How biodegradable plastics will be helpful for sustainable environment ? [10]

**SET - 3**

(Theory - 5)

Full Marks - 80

Time - 3

Hours

Answer any five questions including Q. No. 1 & 2.

The figures in the right-hand margin indicate marks.

1. Answer all questions : [2 × 10 = 20]
 - (a) Define the term 'Ecology'.
 - (b) Define the term "Environment".
 - (c) Define the term "Biodiversity".
 - (d) What is environmental pollution ?
 - (e) What is population explosion ?
 - (f) What is acid rain ?
 - (g) What do you mean by sustainable development ?
 - (h) What are endemic species ? Give examples.
 - (i) What are ecological pyramids ?
 - (j) Define BOD and COD of water.
2. Answer any six questions. [6 × 5 = 30]
 - (a) Write a short note on "Public awareness to protect out environment".
 - (b) Explain the three general types of Ecological pyramids.
 - (c) What are the effects of over grazing ?
 - (d) What are the major threats to biodiversity ?
 - (e) Explain the structure of an Ecosystem.
 - (f) Describe the values included in value education.
 - (g) How is food chain different from food web ?
 - (h) Write the various sources of hazardous wastes.
3. Describes the impact of modern agricultural practices on environment. [10]
4. What are the causes and effects of Deforestation ? [10]
5. Write a short notes on : [10]
 - (i) Effects of air pollution.
 - (ii) Measures to check air pollution.

SET - 4

(Theory - 5)

Full Marks - 80

Time - 3

Hours

Answer any five questions including Q. No. 1 & 2.

The figures in the right-hand margin indicate marks.

1. Answer all questions : [2 × 10 = 20]
 - (a) What are secondary pollutants ? Give examples.
 - (b) Define ex-situ conservation.
 - (c) What is poaching of wildlife ?
 - (d) What are producers and decomposers ?
 - (e) What do you mean by waste land reclamation ?
 - (f) What are hazardous wastes ?
 - (g) What is gene pool ?
 - (h) What is photochemical smog ?
 - (i) What are detritivores ? Give examples.
 - (j) Define autoecology.
2. Answer any six questions. [6 × 5 = 30]
 - (a) Explain, the methods employed for control of noise pollution.
 - (b) Discuss the role of information technology in environment and human health.
 - (c) Write a short note on "Public awareness to protect out environment".
 - (d) Explain the three general types of Ecological pyramids.
 - (e) What are the effects of over grazing ?
 - (f) What are the major threats to biodiversity ?
 - (g) Describe the values included in value education.
 - (h) Describes the impact of modern agricultural practices on environment.
3. Write the various methods of disposal of solid wastes. [10]
4. Explain, the various equipments used to control suspended particulars in industries. [10]
5. Discuss the Environmental Protection Act, 1986. [10]
6. Discuss about rain water harvesting. Write its advantages. [10]

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**MODEL – 1**

[BST - 501]

Full Marks - 70

Time - 3 Hours

*Answer any five questions.**The figures in the right-hand margin indicate marks.*

1. (a) Define the "Source of Energy". [2]
(b) Explain the important of solar energy. [5]
(c) What is Geo-thermal Energy ? Explain the uses of geo-thermal energy for electricity generation. [7]
2. (a) What is Green Technology ? [2]
(b) What are the various gas pollutant ? [5]
(c) Explain the different components of an Eco-system. [7]
3. (a) What is Water-Pollution ? [2]
(b) Explain the different components of water pollution. [5]
(c) Describe the various methods of controlling Air-pollution from the Industry. [7]
4. (a) What is life cycle assessment ? [2]
(b) Discuss the power of Central Government to protect and improve environment. [5]
(c) What are the policies for environmental management keeping the pace of economic growth ? [7]
5. (a) What do you mean by environmental audit ? [2]
(b) How air pollution is accountable for ill-health ? [5]
(c) What is environmental impact assessment ? Write the different steps involved. [7]
6. (a) Why is ozone important ? [2]
(b) How water pollution is the cause of water borne diseases ? [5]
(c) How environmental education will help in narture of environment ? [7]
7. (a) What is acid rain ? [2]
(b) What is radiation pollution ? [5]
(c) What is air-pollution ? What are its effects ? Explain the control strategies. [7]

MODEL – 2

[BST - 501]

Full Marks - 70

Time - 3 Hours

*Answer any five questions.**The figures in the right-hand margin indicate marks.*

1. (a) What is Environmental Pollution ? [2]
(b) Write the importance of Environmental studies. [5]
(c) Explain the structure of an Eco-system. [7]
2. (a) What is Green Technology ? [2]
(b) Explain Biotic and Abiotic Ecosystem. [5]
(c) Write the function of food-chain and food webs in Ecosystem. [7]
3. How is soil pollution is occured ? [2]
(b) Discuss the pond as an eco-system. [5]
(c) What is Green-house effect ? How does it cause global warming ? [7]
4. (a) What is Air-pollution ? [2]
(b) Explain the different causes of Air-pollution. [5]
(c) Describe the various methods of controlling Air-pollution from the Industry. [7]
5. (a) What is Water-Pollution ? [2]
(b) Explain the different sources of Water-Pollution ? [5]
(c) Write the different methods for controlling Water-Pollution ? [7]
6. (a) What is source of energy ? [2]
(b) What is population explosion ? [5]
(c) What is the necessity of environmental legislation ? [7]
7. (a) What is Acid Rain ? [2]
(b) How social awareness can improve environmental management ? [5]
(c) What is plastic pollution ? How biodegradable plastics will be helpful for sustainable environment ? [7]

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