

2025

**M. A. Fourth Semester (CBCS) Examination**  
**Environmental Studies**  
**Course - CEC 4.1**

Full Marks—40 Time—2 Hours

*The figures in the right margin indicate marks.*

1. Answer **any five** of the following :  $5 \times 2 = 10$

- (a) What do you mean by global environmental issues? Give examples.
- (b) What is the main role of UNFCCC?
- (c) What are the major consequences of global warming in India?
- (d) What do you mean by sustainable agriculture?
- (e) What do you mean by Environmental Policy in ISO 14001?
- (f) What are the major environmental problems in India?
- (g) What is meant by Total Quality Management (TQM)?

2. Answer *any four* questions from the following :  $4 \times 5 = 20$

(a) Discuss the term “COP” with examples. Discuss briefly the objectives of CDM.  $2+3=5$

(b) Discuss the sustainability approach of environmental management.

(c) Briefly explain the measures being adopted to mitigate global climate changes.

(d) Explain environmental ‘aspect’ and impact in ISO 14001 standards with suitable examples.

(e) Discuss the impact of India’s transport sector on environment. Mention the steps taken to mitigate it.  $3+2=5$

3. Answer *any one* question :  $1 \times 10 = 10$

(a) Briefly discuss the implications of deforestation and desertification on global climate change. Why overpopulation is considered as one of the maindrivers to climate change?  $6+4=10$

(b) Prepare environmental management plan as per ISO 14001 standards on energy consumption, ambient air emission and waste generation. 10

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**M. A. Fourth Semester (CBCS) Examination**  
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**Course - CEC 4.2**

Full Marks—40

Time—2 Hours

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1. Answer *any five* of the following questions :

$$5 \times 2 = 10$$

- (a) Define acute toxicity.
- (b) What do you understand by the term 'anaerobic digestion'?
- (c) What is biomagnification?
- (d) State the role of phyto accumulation in waste water treatment.
- (e) What is Recombinant DNA Technology?
- (f) Mention the function of a stickytrap in Integrated Pest Management.
- (g) What is syngas?

2. Answer *any four* questions from the following :

$$4 \times 5 = 20$$

- (a) Write a note on Radiation Pollution.
- (b) Discuss the activated sludge process of waste water system.

(c) Classify biofuels with suitable examples.

(d) Differentiate plant toxins and animal toxins.

(e) State the type of Bioremediation.

3. Answer *any one* of the following questions :  $1 \times 10 = 10$

(a) What are the component of Integrated Pest Management (IPM)? Mention the disadvantages of IPM.  $7+3=10$

(b) What are the typical routes of exposure for toxins into a human body. 10

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**Course - OEC 4.1**

Full Marks—40

Time—2 Hours

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1. Answer **any five** of the following :  $5 \times 2 = 10$

- (a) What is capacity?
- (b) Define a technological disaster.
- (c) Why do you think disaster induced displacement is on the rise?
- (d) What is the significance of disaster response?
- (e) Name the five main pillars of NDMP.
- (f) What is Disaster Mapping?
- (g) What is a storm surge?
- (h) Discuss the impact of fire on wildlife habitat.

2. Answer **any four** of the following :  $4 \times 5 = 20$

- (a) State the factors that increases the vulnerability of a hazard prone region.
- (b) Discuss the emergency response activities.

(c) Identify the key phases of disaster management.

(d) Discuss the structural and non structural mitigation measures adopted in India.

(e) Write a note on the advancement of disaster mapping in India.

(f) Why is CDP necessary and what are its objectives?

(g) What are the impacts of uncontrolled fire?

3. Answer *any one* of the following :  $1 \times 10 = 10$

(a) Discuss the national and international policies on displacement. Name the various agencies operating for disaster response management.  $5+5=10$

(b) State the Prime Minister's 'ten point agenda' for disaster management in India. Enlist the significant revisions incorporated in the National Disaster Management Plan of India in 2019.  $6+4=10$

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Environmental Studies  
Course - OEC 4.2**

Full Marks—40

Time—2 Hours

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1. Answer **any five** of the following :  $2 \times 5 = 10$

- (a) What is landslide management?
- (b) What are the full forms of GIS and GPS?
- (c) What is meant by seismogram?
- (d) Mention the seismic zones of India.
- (e) What is meant by silicosis?
- (f) Explain how seismic activity is associated with landslide?
- (g) Define environmental restoration.

2. Answer **any four** of the following :  $5 \times 4 = 20$

- (a) Describe the negative impact of global warming.
- (b) Explicate the major causes of avalanche.
- (c) Analyse the appropriate process of tsunami management.

(d) Discuss how Hazop study does work.

(e) Elucidate the five (5) types of man made disasters.

(f) What are the mitigation measures of earthquake disaster?

3. Answer **any one** of the following :  $1 \times 10 = 10$

(a) What is radioactive disaster? Describe major nuclear plant disasters with suitable examples.  $3+7=10$

(b) What is meant by chemical industrial disaster? Examine the causes and consequences of chemical industrial disasters.  $2+8=10$

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