

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 agricultural?
  - (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 :

4×5=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 :

1×10=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.

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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 :

5×2=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 :

4×5=20

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

[P.T.O.]

- (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 :

1×10=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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Full Marks—40

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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 five?
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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