

DR. B. R. AMBEDKAR OPEN UNIVERSITY, HYDERABAD
FACULTY OF SCIENCE
DEPARTMENT OF EARTH AND ENVIRONMENTAL SCIENCE
M.Sc. ENVIRONMENTAL SCIENCE, FIRST YEAR, SEMESTER-I
(2025-2026)
COURSE – 1: FUNDAMENTALS OF ENVIRONMENTAL SCIENCE

ASSIGNMENT – 1

Maximum Marks: 15

Minimum Marks: 06

Instructions to the Candidate:

- i. Answer all the questions**
- ii. Each question carries 5 marks**

1. Write about the principles of Environmental Science.
2. Define agro-climatic zones. What are the main objectives of identifying agro-climatic zones?
3. What are the advantages and disadvantages of multipurpose river projects?

ASSIGNMENT – II

Instructions to the Candidate:

Maximum Marks: 15

- i. Answer all the questions**
- ii. Each question carries 5 marks**

Minimum Marks: 06

1. What is the photochemistry of ozone and how does it occur in the atmosphere?
2. What is food security and what are its key components?
3. What is the definition and interpretation of sustainable development?

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COURSE -2: ENVIRONMENTAL CHEMISTRY

ASSIGNMENT – 1

Maximum Marks: 15

Minimum Marks: 06

Instructions to the Candidate:

- i. Answer all the questions**
- ii. Each question carries 5 marks**

1. Give a brief account on carcinogens in the atmosphere
2. What are the consequences of ozone layer depletion? Explain
3. Discuss in detail the environmental effects of pesticides

ASSIGNMENT – II

Instructions to the Candidate:

Maximum Marks: 15

- i. Answer all the questions**
- ii. Each question carries 5 marks**

Minimum Marks: 06

1. Explain about chemical pollutants
2. Explain the applications of Gas Chromatography
3. Explain the various steps involved in gravimetric analysis

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COURSE -3: ECOLOGY AND BIODIVERSITY

ASSIGNMENT – 1

Maximum Marks: 15

Minimum Marks: 06

Instructions to the Candidate:

- i. Answer all the questions**
- ii. Each question carries 5 marks**

1. Differentiate between food chain and food web with examples
2. Explain about aquatic ecosystem in detail
3. How is India progressing towards the SDGs

ASSIGNMENT – II

Instructions to the Candidate:

Maximum Marks: 15

Minimum Marks: 06

- i. Answer all the questions**
- ii. Each question carries 5 marks**

1. Describe the concept of biome
2. Describe uniqueness of Biodiversity
3. Write a short note on vermitechnology and its importance in organic waste management.

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COURSE -4: ENVIRONMENTAL GEOSCIENCE

ASSIGNMENT – 1

Maximum Marks: 15

Minimum Marks: 06

Instructions to the Candidate:

- i. Answer all the questions**
- ii. Each question carries 5 marks**

1. Describe the Earth's minerals
2. Write the classification of volcanoes
3. Describe landslide prone areas in India

ASSIGNMENT – II

Instructions to the Candidate:

Maximum Marks: 15

Minimum Marks: 06

- i. Answer all the questions**
- ii. Each question carries 5 marks**

1. Explain the mining effect on the Biodiversity
2. Explain sea water intrusion
3. Write about restoration of Holistic Buildings