ENVIRONMENTAL STUDIES AND DISASTER MANAGEMENT

Weeks 1-3: Unit I – Introduction

Week 1

- Lecture 1: Basics of Ecology, Ecosystem Concept, and Sustainable Development
- Lecture 2: Renewable and Nonrenewable Energy: Sources, Advantages, and Disadvantages

Week 2

- Lecture 3: Rainwater Harvesting: Importance and Methods
- Lecture 4: Deforestation: Effects and Control Measures

Week 3

- Lecture 5: Recap of Unit I with Practical Examples
- Lecture 6: Practice Quiz and Discussion on Unit I

Weeks 4-5: Unit II – Air and Noise Pollution

Week 4

- Lecture 7: Air Pollution: Sources, Effects on Health, and Economy
- Lecture 8: Air Pollution Control Methods

Week 5

- Lecture 9: Noise Pollution: Sources, Effects, and Acceptable Levels
- Lecture 10: Methods to Minimize Noise Pollution

Weeks 6-8: Unit III – Water and Soil Pollution

Week 6

- Lecture 11: Water Pollution: Impurities, Causes, and Sources
- Lecture 12: Effects of Water Pollution and Concepts of DO, BOD, COD

Week 7

• Lecture 13: Prevention of Water Pollution: Water and Sewage Treatment

• Lecture 14: Soil Pollution: Sources, Effects, and Control

Week 8

- Lecture 15: Types of Solid Waste and Disposal Methods
- Lecture 16: Solid Waste and E-Waste Management

Weeks 9-10: Unit IV – Impact of Energy Usage on Environment

Week 9

- Lecture 17: Global Warming, Greenhouse Effect, and Ozone Layer Depletion
- Lecture 18: Acid Rain: Causes, Effects, and Prevention

Week 10

- Lecture 19: Eco-Friendly Materials and Recycling of Materials
- Lecture 20: Concepts of Green Buildings, Carbon Credit, and Carbon Footprint

Weeks 11-13: Unit V – Disaster Management

Week 11

- Lecture 21: Natural Disasters: Flood, Cyclone, Earthquakes, Landslides
- Lecture 22: Man-Made Disasters: Fire, Industrial Pollution, Nuclear Disasters

Week 12

- Lecture 23: Biological Disasters and Accidents (Air, Sea, Rail, Road)
- Lecture 24: Structural Failures (Building, Bridge), War, and Terrorism

Week 13

- Lecture 25: Disaster Preparedness: Planning and Early Warnings
- Lecture 26: Psychological Response and Management: Trauma, Stress, Rumors

Weeks 14-16: Recap and Assessment

Week 14

- Lecture 27: Comprehensive Recap of Units I-II
- Lecture 28: Comprehensive Recap of Units III-IV

Week 15

- Lecture 29: Practical Examples and Discussions on Disaster Management (Unit V)
- Lecture 30: Practice Quiz and Mock Test

Week 16

- Lecture 31: Review of Entire Syllabus, Feedback, and Doubts Clearing
- Lecture 32: Final Preparation and Exam Readiness