

ELECTIVE COURSE 3 (EC 3) ENVIRONMENTAL EDUCATION

MODULE-I: FUNDAMENTALS OF ENVIRONMENTAL EDUCATION (2 Credits)

Unit 1: Concept of Environment, Eco System and Ecology

1. Discuss in detail meaning and biotic and abiotic components environment.(10 marks)
2. Write in detail concept of ecosystem and its types. (10 marks)
3. Concept of Ecology. (5 marks)
4. Ecological Pyramids (Numbers, Mass, Energy). (5 marks)
5. Food Web. (5 marks)
6. Ecological Energy Dynamics. (5 marks)

Unit 2: Major Environmental Issues: Meaning, Causes, Effects and Remedies

1. Climate Change (5 marks)
2. Loss of Biodiversity. (5 marks)
3. Bio magnification (5 marks)
4. Eutrophication (5 marks)
5. Genetic Engineering (5 marks)
6. Urban Sprawl (5 marks)

Unit 3: Development of Environmental Education

1. Explain in detail meaning, Objectives and Principles of Environmental Education(10 marks)
2. Explain in detail meaning, Objectives and Significance of Environmental Education(10 marks)
3. Discuss multidisciplinary and interdisciplinary Approaches of teaching Environmental Education(10 marks)
4. Stockholm conference (1972) (5 marks)
5. Intergovernmental conference (1977) (5 marks)
6. Kyoto Protocol (2005) (5 marks)
7. Tbilisi + 30 (2007) (5 marks)

MODULE II: ENVIRONMENTAL EDUCATION FOR SUSTAINABLE DEVELOPMENT (2 Credits)

Unit 4: Initiatives for Environment Assessment

1. Explain Meaning and Steps & of Environmental Impact Assessment in detail. (10 marks)
2. Explain steps & significance of Environmental Impact Assessment in detail. (10 marks)

3. Discuss function and characteristics of environmental management in detail. (10 marks)
4. Write concept, features and types of environmental auditing. (10 marks)
5. Need for environmental management (5 marks)

Unit 5: Sustainable Environmental Management

1. Elucidate meaning, Need, Guiding Principles of Sustainable Development. (10 marks)
2. Discuss need and Guiding Principles of Sustainable Development. (10 marks)
3. Explain in detail meaning and process of Rain water Harvesting/Mangrove Management/Solid Waste Management. (10 marks)
4. Explain in detail process and Significance of Rain water Harvesting/Mangrove Management/Solid Waste Management. (10 marks)
5. Discuss Indigenous Technical Knowledge as a sustainable Practice. (10/5 marks)

Unit 6: Environmental Initiatives, Projects and Laws

- a) Explain in detail Wild-life Protection Act-1972 (10/5 marks)
- b) Discuss on Environment Protection Act, 1986 (10/5 marks)
- c) Discuss on Noise Pollution Act-2000. (10/5 marks)
- d) Tarun Bharat Sangh (5 marks)
- e) Narmada Bachao Andolan, (5 marks)
- f) Tiger Project(5 marks)
- g) Ganga Action Plan (5 marks)