

106.ENVIRONMENTAL STUDIES

1. Introduction to Environmental Science and Natural Resources: the Multidisciplinary Nature of Environmental Studies and Importance, Introduction of Natural Resources.- Forest Resources, Water Resources, Mineral Resources, Energy resources land and Food Resources-Conflict Over Resources Sharing, Role of an Individual in Conservation of Natural Resources, Public Awareness.
2. Ecosystem and biodiversity: Ecosystem –Concept, Structure and Function, Types of Ecosystem, Food Chain, Food Web, Ecological Pyramid, Energy Flow, Ecological Succession, Biodiversity-: Introduction-Definition: Genetic, Species, Value of Biodiversity: Consumptive use, Productive use, Biodiversity at Global, National and Local Levels.
3. Environmental Pollution Definition: Cause Effect and Control Measures of: a) Air Pollution; b) Water Pollution; c) Soil Pollution d) Marine Pollution, Noise Pollution, Thermal Pollution, Nuclear Pollution and Disaster Management-Floods, Earth Quake, Cyclone and Landslides, Role of an Individual in Prevention of Pollution.
4. Social Issues and the Environmental Ethics: Issues and Possible Solution, From Unsustainable to Sustainable Development Urban Problems Related to Energy and Water Conservation, Rain Water Harvesting, Resettlement and Rehabilitation of People; Its Problem and Concerns. Climatic Change, Global Warming, Acid Rain, Ozone Layer.
5. Environment Protection Act, Role of Information Technology in Environment, Visit to a Local area, Local Polluted Site, Local Simple Ecosystem.

Suggested Readings:-

1. Chaudhary B.L. and J. Pandey: Environmental Studies, Apex Publishing House, Udaipur.
2. Purohit, S.S., Q.J. Shammi and A.K. Agrawal: A Text Book of Environmental Sciences (In English), Student Edition, Jodhpur)