

B.A. PART I

ENVIRONMENTAL STUDIES

Teaching : 3 periods / week in Annual System

Maximum Marks : 100

Examination duration : 2 hours

Objective type multiple choice question papers, 1 mark for each right answer, 20 questions from each Unit.

Unit I : Multidisciplinary Nature of Environmental Studies : Definition, scope and importance; Human Population and Environment; Environment and Human Health; Legal Issues and Environment : Environment Protection Act; Environmental Ethics : Issues and possible solutions.

Unit II : Natural Resources : Renewable and Non-Renewable : Forest Resources - Use and over exploitation, deforestation, introduction to afforestation activities in India.

Water Resources - Use and over utilization of surface and ground water; floods and droughts

Mineral Resources - Use and exploitation, environmental effects of extracting and using mineral resources, case studies.

Food Resources - World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems.

Energy Resources - Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources, case studies.

Land Resources - Land as a resource, degradation, man induced landslides, soil erosion and desertification.

Unit III : Ecosystems : Concept of an ecosystem, Structure and function of ecosystem, Producers, consumers and decomposers; abiotic factors; food chain and web; ecological pyramids; energy flow.

Pollution – Definition, causes, effects and management strategies for (i) Air Pollution, (ii) Water Pollution, (iii) Soil Pollution, (iv) Noise Pollution, (v) Thermal Pollution, (vi) Nuclear hazards.

Solid waste management – Causes, effects and management strategies for urban and industrial wastes.

Unit IV : Biodiversity and its conservation : Introduction, definition, levels (genetic, species and ecological), Importance of biodiversity; Status – Global, National and Local; Threats to biodiversity – habitat loss, poaching of wildlife, man-wildlife conflicts. Endangered and endemic species of India.

Unit V : Sports for human welfare : Sports in relation to Philosophy; Sports and health fitness; Social values for sports and sportspersons, Role of sports in personality development; Sports as recreation.

India's policies for Sports : Central and State Governments; introduction to sports support facilities in India.

History and Traditional Sports of India – Kabaddi, Kho-Kho, Mallakhamb, Jallikattu.