

PAPER – 7

Conservation and Management of Natural Resources

Credit-4

Total Marks: 100

P.P.W: 4

► **Objectives:**

1. To make understand Human Life Style about Environment, Pollution, Energy, Factors of Natural Resources, Development and Natural Balancing System.
2. To make understand Global Environmental Problems.
3. To aware about importance of conservation and increment of natural resources with reference to sustainable development.
4. To inform the implementations of appropriate methods of suitable management of Natural Resources for different target group for awareness campaign with proper media.
5. To make students knowledgeable about vices and virtues of Regulations and Rights, Ownership Gender, Equality and Mass Participation in implementation of various plans from Rural to Global Stage in conservation and increment of National Resources.

► **Syllabus:**

Module-1:

Environment and Natural Resources.

- 1) Place of the Earth in the universe and Environment around it.
- 2) Identification of Environment and Natural Resources.
- 3) Explanation of Environment.
 - 3.1 Living and non-living factors in Environment.
 - 3.2 Cover creation of Environment and its theories.
 - 3.3 Various types of events-incidents balancing the Environment.
 - 3.4 Circulation and Diet chain in Dietetics.
 - 3.5 Diversity in creature world.
 - 3.6 Man made and Natural Environment.
- 4) Pollution.
 - 4.1 Definition, Explanation, Kinds, Reasons.
 - 4.2 Relation between Environment and Pollution.
 - 4.3 Effects of Pollution on total factors of Environment.
 - 4.4 Effects of Healthy and unhealthy Environment on Economical, Social, Geographical, Political and Bio system.

Module- 2:

Major Constituent Component of Natural Resource: Water, Soil, Forest, Space (Air), Fauna- a study with reference to the following topics.

- 1) Its place, proportion, distribution, kinds, function and importance in the Earth.
- 2) Place and importance as a component in the Environment.
- 3) In avoidable co-existence with living and non-living constituents.
- 4) Different uses by Human Being.
- 5) Over exploitation and pollution of constituents' components.
- 6) Over all impact on global environment of polluted constituents.
- 7) Harming effects of polluted constituents on life style.
- 8) Role of constituents' components in development.
- 9) Increasing Natural calamities due to polluted components (Warming of the earth, Acid Rain, Decreasing Ozone Layer, Tsunami, Earthquake, Flood, Draught, Increasing Sea Level, and Decreasing Diversity of creature world).

Module- 3:

Energy

- 1) Identification, Definition, Explanation, essentiality, Scope.
- 2) Kinds, Source and Structure of Energy, advantage and disadvantage of traditional and non-traditional energy sources.
- 3) Energy wave in living and non-living constituents.
- 4) Relation between Energy and development.
- 5) Relation between Balanced environment and Energy.
- 6) Comprehension of in the choice of energy resources and modest use of energy in context of balanced environment and sustainable development.

Module- 4:

Importance of Conservation and Growth of Natural Resources.

- 1) Today's condition of Natural resources.
- 2) Importance of Conservation and Growth of Natural Resources.
- 3) Obstacles and concepts regarding conservation and growth of Natural Resources with reference to Regional, National and Universal Level.
- 4) Possibilities of development along with conservation and growth of Natural Resources.

Module-5:

Management of Conservation and Growth of Natural Resources.

- 1) Importance of the Management of Conservation and Growth of Natural Resources.
- 2) Eco friendly approach for Management of Conservation and Growth of Natural Resources and importance of balanced Natural lifestyle.
- 3) Use of Mass Media according to grasping power to aware different target group.
- 4) Importance of Mass Participation, Equality, Gender in Management of Conservation and Growth of Natural Resources programs and methods of implementation.
- 5) Explanation of conservation and Growth of Natural Resources with reference to earning livelihood and sustainable development.
- 6) Analysis of implementation of conservation and Growth of natural Resources with reference of enter relation of poverty, materialistic, development, ownership and rights of Natural Resources, introduction of the institution working in this field.
- 7) Local National and International Laws and Rules for the conservation and Growth of natural Resources.

► Specified Education Methods:

- 1) Visit, experiments in maintenance of natural resources in Watershed Development Programs: Institutions Working in Conservation and Growth of Natural resources field.
- 2) Discussions Interactions and meetings with experienced experts in conservation of Natural resources.
- 3) Knowledge of establishing social-forests, Energy Park and Medicinal Garden- visit.
- 4) Film show, slide show, exhibition, demonstration, puppet, street play, folk play songs.
- 5) Work shop, seminar, Shibir2, Group-Discussion.

► **References:**

- 1) Parekh, M.G. Pryavaran ni Samasya.
- 2) Osborn, Tran. Mudula Maheta Aapni Lutati Dharti.
- 3) Vaid, Chunibhai Pani ni Samasya.
- 4) Dave, Arunbhai / Shah, Kapil Punarnava Sajiv Kheti.
- 5) Bhatt, Mahendra / Shah, Kapil Sajiv Kheti.
- 6) Shah, Kapil Chiranjiv Krushi Vikas.
- 7) Modi, Nagin Pryvaran Jivan Aavran.
- 8) Ruthmur, Tran.Morya Vijaygupta Manas ane Tenu Pryavaran.
- 9) K.K. Krishnakumar Prakuti, Samaj ane Vigyan.
- 10) Oza, Gunvant Pryavaran.
- 11) Padmanabha Suryashakti.
- 12) Vora, Rajiv Prashna Pryavaran No.
- 13) Mishra, Lavkumar Saurashtra na Pryavaran na Prashno.
- 14) Thakkar, Ramesh J. Pryavaran ane Aapne.
- 15) Sheth, Pravin Gandhi Vichar ane Pryavaran.
- 16) Oza, Bhuvnesh Gandhi Chindhya Vikas Marga.
- 17) Shah, Kranti Vikas na Khandiyaro.
- 18) Kothari, Minu Nabhi Shwash Leti Dharatimata nu Vashiyatanamu
- 19) Pradushna ane Aapne – Parichaya Pustika.
- 20) Dave, Arun Green House Effect, Acid Rain, Ozone
Chhat ma Gabadu - Parichaya Pustika.
- 21) Nagendra Vijay Dushit hava, Pani - Parichaya Pustika.
- 22) Nayak, B.J. Vigyanma Urja,Udyoga ane Paryavaran
- 23) Khoshoo, T.K. Environmental Properties in India.
- 24) The Hindu Survey Of the Environment.
- 25) Balasubramaniam Ecology Environment and Pollution.
- 26) Sharma, P.D. Environmental Pollution.
- 27) Dasman Environmental Conservation.
- 28) Hyams, Edward Soil and the Civilisation
Energy Rural Development- National
Academy Of Science.
- 29) Wilson, Clark Energy for Survival.
- 30) Magazine Artical Pollution in Large cities- C.S.E. New Delhi.
- 31) ” Our Environment our Future-Ministry of
Environment and Forest.
- 32) ” Sustainable Technology - C.E.E., Ahmedabad.

- 33) ” Sustainable Energy Development in
India Teri, New Delhi.
- 34) Vatal, Surendra Community Participation.
- 35) Vatal, Surendra Participation and Sustainable Development.
- 36) Ramesh Savliya *A* Paryavaran Sathi, C.E.E., Ahmedabad.