

Department of Higher Education, Govt. of M.P.
Semester Wise Syllabus for Undergraduates
As recommended by Central Board of Studies and
Approved by HE the Governor of M.P.

Department of Environment

Session 2010-11

Class - B.Sc

Subject - Foundation Course

Paper Title - Paper I : Environmental Studies

Semester . III

Max. Marks 30

Unit I:

Study of Environment and ecology:

- (a) Definition and Importance.
- (b) Environmental Pollution and problems.
- (c) Public participation and Public awareness.

Unit II :

Environmental Pollution :

- (a) Air, water, noise, heat and nuclear pollution.
- (b) Causes, effect and prevention of pollution.
- (c) Disaster management . Flood, Earthquake, cyclones and landslides.

Unit III:

Environment and social problems :

- (a) Development . non-sustainable to Sustainable.
- (b) Energy problems in cities.
- (c) Water preservation . rain-water collection.

Unit IV:

Role of mankind in conserving natural resources :

- (a) Food resources . World food problem.
- (b) Energy resources . increasing demand for energy.
- (c) Land resources . Land as resources.

Unit V:

Environment conservation laws :

- (a) Conservation laws for air and water pollution.
- (b) Wildlife conservation laws.
- (c) Role of information technology in protecting environment & health.

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Paper Title - Paper II : Environmental Studies

Semester . IV

Max M. 30

Unit I : Problem of natural resources

(a) Problem of water resources . Utilization of surface and groundwater, overutilisation, flood, drought, conflicts over water, dams-benefits and problem.

(b) Problems of forest resources . uses and overutilisation, deforestation, utilisation of timber, dams and its effect on forests and tribes.

(c) Problems of land resources . Land as a source, erosion of land, maninduced, land slides and desertification.

Unit II : Bio-diversity and its protection .

(a) Value of bio-diversity . Consumable use : Productive use, Social, alternative, moral aesthetic and values.

(b) India as a nation of bio-diversity and multi-diversity at global, national and local levels.

(c) Threats to bio-diversity . Loss of habitat, poaching of wildlife, manwildlife conflicts.

Unit III:

Human Population and Environment

(a) Population growth, disparities between countries.

(b) Population explosion, family welfare Programme.

(c) Environment and human health.

Unit IV :

Multidisciplinary nature of environmental studies :

(a) Natural resources

(b) Social problems and the environment

(c) Ecosystem.

Unit V :

Environmental Wealth :

(a) Rivers, ponds, fields and hills.

(b) Rural, Industrial, Agricultural fields.

(c) Study of common plants, insects and birds.