M.A./M.Sc. Geography Fourth Semester

Paper - I (44361) Environment Geography

Unit - I

- a) Environment: meaning, elements, and types
- b) Human ecology: meaning, scope and concepts
- c) Principles of environmental geography
- d) Man-environment relationship: review of different perspectives

Unit - II

- a) Ecosystem: concept, definitions, characteristics and types
- b) Components and functioning of ecosystem
- c) Trophic level, food chain and ecological pyramids; energy flow in ecosystem
- d) Geo-chemical cycles and circulation of element in the ecosystem: carbon cycle, nitrogen cycle and oxygen cycle

Unit - III

- a) Fresh water ecosystems: meaning, types and their properties
- b) Marine ecosystems: meaning, types and their properties
- c) Terrestrial ecosystems: meaning, types and their properties
- d) Biomes: concept, types, characteristics and distribution; detail study of tropical desert biomes

Unit - IV

- a) Environmental hazards and disasters: meaning, types and impacts
- b) Environmental degradation and pollution: meaning, process, causes, types and impacts
- c) Environmental planning and management: concept, objectives and strategies
- d) Sustainable development: concept, need, problems and strategies

Unit - V

- a) Ecology of tropical farming systems
- b) Mountain ecosystem with special reference to Aravalli hills
- c) The Stockholm Conference and the Earth Summit
- d) Environmental laws in India related to wild life, water, forest and environment

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