

Environmental Communication (BAJMC-306)

by

Ms. Supriya Malhotra (Assistant Professor, BVICAM, New Delhi)

2024

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Syllabus - Unit 1

Unit 1: Environment and Media

- 1. Environment: Definition, Scope and Importance.
- 2. Environment Communication: Definition, Concept and Need for Public Awareness.
- 3. Natural Resources: Associated Problems and Law (Forest, Water, Mineral, Food, Energy and Land Resources).
- 4. Role of Individual and Media in Conservation of Natural Resources.

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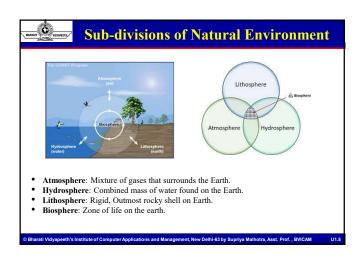
Defination of Environment

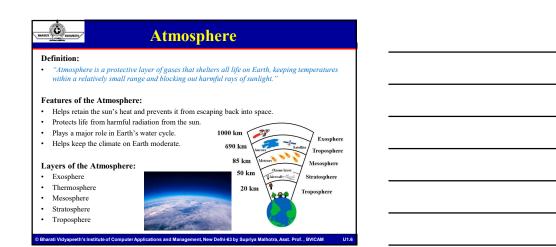
- The word Environment is derived from a Fr or surround." Hence, everything that surroun
- Environment refers to the aggregate influence physical and chemical factors which determine organism or group of organism.
- Environmental Studies is the scientific study of our environment and our place in it.
- Types of Environment:
- Natural Environment Anthropogenic Environment



ench word "Environ" meaning "encircle ands us is called Environment.			
e of all social, economical, biological, ne the existence, growth and welfare of an			
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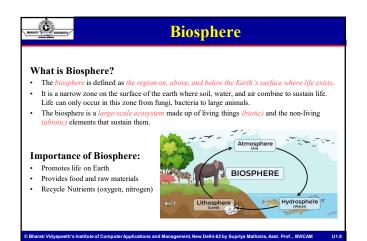






What is Hydrosphere? The hydrosphere is the combined mass of water found on, under, and above the surface of the earth. This includes water in liquid and frozen forms in groundwater, oceans, lakes and streams. Approximately 75% of Earth's surface, an area of some 361 million square kilometres, is covered by ocean. Hydrosphere Importance of Hydrosphere: Human Needs (drinking, cleaning) Provides habitat for marine life. Regulates climate (maintains temperature) Essential component of living cells.

Lithosphere	
Definition:	
 The term lithosphere is derived from the Greek language, composed of the words "lithos" meaning rocky and the word "sphaira" meaning sphere. It is the outermost shell of a terrestrial- type planet or natural satellite. It is composed of the crust and the portion of the upper mantle, which compose the rigid and hard outer layer of the Earth. 	
 The lithosphere reacts to the atmosphere, hydrosphere, and biosphere to initiate the soil-forming process called the pedosphere. It can extend to a depth of more than 100 km (or 60 miles) but generally has a thickness between 35 to 50 km in the continental regions. 	
Importance:	
 The lithosphere provides our forests, grasslands and is responsible for agriculture, human settlements, and is a rich source of minerals. 	
Without the movement of tectonic plates, no mountain ranges and continents would have been formed on earth.	



Anthropogenic Environment FEATURES: Anthropogenic means 'changes in environment caused by people'. Thus, Anthropogenic environment is the environment extremely modified through technology by human beings. is use of resources that are non-renewable (fossil fuels) is great harm to the ecosystem. They affect the ecosystem by habitat destruction. Industrialization, pollution, deforestation, urbanization, building dams, etc. are some examples of anthropogenic changes.



Scope of Environmental Studies

- > To study the Natural History of a forest, a river, a mountain, a desert and a combination of all these elements.
- > To understand our dependence on nature so that we can develop skills to manage and conserve it.
- >To create awareness and sensitivity towards the environmental problems.
- > To motivate active participation towards environmental protection and
- > To evaluate the necessity towards the conservation of natural resources.

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Importance of Environmental Studies

- 1. By learning the knowledge of environmental studies people will understand the concept "the need of development without destruction of the environment."
- 2. It is useful in checking environmental pollution and related solutions.
- 3. It helps in maintaining ecological balances.
- 4. It helps to gain skills to assess the environmental impact of human activities. It will help to protect biodiversity.
- 5. It gives us basic knowledge of environment and associated problems
- 6. It helps to achieve sustainable development.
- 7. It helps to educate people regarding their duties towards the protection of environment.

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Environment Communication

- Environmental communications is defined as the assessment and practice of how people, societies and organizations interact with and effect the environment. It includes a variety of interactions, ranging from interpersonal communications to media coverage related to the environment. In essence, it refers to the strategies and practices that are used to manage and protect the environment.
- The need of the hour is to make the public aware of the consequences of the environmental degradation, if not corrected and reformative measures are undertaken, would result in the extinction of life. It is also necessary to face the various environmental challenges and to act accordingly to make the acts eco-friendly. The major challenges ahead are the following:
- A. Population Exploitation
- B. Reduction of Genetic Diversity
- C. Agricultural Growth

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Need for Public Awareness

- > To identify various plants and animals and other components of the environment that are endangered.
- > To take appropriate actions regarding the use of natural resources.
- > To conserve depleting natural resources for the betterment of the society.
- To adopt appropriate ways and solve existing environmental problems.

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Natural Resources

What are Natural Resources?

- The materials we use from nature such as wind energy, water, plants, animals, and fossil fuels to make the things we need are called natural resources.
- · They are the basis of life on Earth.
- They are divided into two broad categories: renewable and non-renewable natural resources.



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ВИЛИЛ	TYPES OF NATURAL RESOURCES			
Based on the availability, there are two types of natural resources: Renewable: resources that are available in infinite quantity and can be used repeatedly are called renewable resources. Example: Forest, wind, water, etc. Non-Renewable: resources that are limited in abundance due to their non-renewable nature and whose availability may run out in the future are called non-renewable resources. Examples include fossil fuels, minerals, etc.				
	Renewable resource	Non-renewable resource		
	It can be renewed as it is available in infinite quantity	Once completely consumed, it cannot be renewed due to limited stock		
	Sustainable in nature	Exhaustible in nature		
	Low cost and environment-friendly	High cost and less environment-friendly		
	Replenish quickly	Replenish slowly or do not replenish naturally at all		

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Th	e 5 Most important natural Resources are:
1)	Forests: Forests maintain the world's ecosystem and offer clean air.
2)	Water: Earth is 70 percent covered with water and only 2 percent of that is freshwater.
3)	Minerals: Minerals are vital for the construction, manufacturing and energy industries.
4)	Soil: Different particles and nutrients make up soil. It promotes plant growth.
5)	Air: For all plants, animals, and humans to exist on this planet, the air they breathe must be clean.
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Exploitation of natural resources started to emerge on an industrial scale in the 19th century as the extraction and processing of raw materials (such as in mining, steam power and machinery). During the 20th century, energy consumption rapidly increased. Today, about 80% of the world's energy consumption is sustained by the extraction of fossil fuels, which consists of oil, coal and natural gas. There are many problems associated with natural resources: Forest resources and associated problems Deforestation. Mining and its effects on forest. Maining and its effects on forest. Conflicts over water. Dams and problems. Mineral resource and associated problems Conflicts over water. Dams and problems. Use and exploitation. Mineral resource and associated problems Conflicts over water. Soll erosion and descrification.

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)	Increases in the sophistication of technology has enabled natural resources to be
	extracted quickly and efficiently. E.g., in the past, it could take long hours just to cut down one tree only using saws. Due to better technology, the rates of deforestation have greatly increased.
•	The number of humans is increasing. According to the UN, the world population was 7.6 billion in 2017. This number is expected to rise to about 10 billion in 2050 and about 11 billion in 2100.
	Consumerism. Materialistic views lead to the mining of gold and diamonds to produce jewellery. Consumerism also leads to extraction of resources for the production of commodities necessary for human life but in amounts excessive of what is needed, because people consume more than is necessary or waste what they have.
,	Excessive demand often leads to conflicts due to intense competition. Organizations such as Global Witness and the United Nations have documented the connection.
,	Lack of awareness among the population is striking. People are not aware of ways to reduce depletion and exploitation of materials.
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> The environmental law in India protects the environment. Prevention of air, water, noise pollution, protection of ancient monuments etc. > Most of the laws were codified by British for Environmental Protection. Some Shore Nuisance Act in 1853 Indian Forest act in 1865

Genesis of Environmental Laws in India

Wild Birds and animal Protection act in 1912

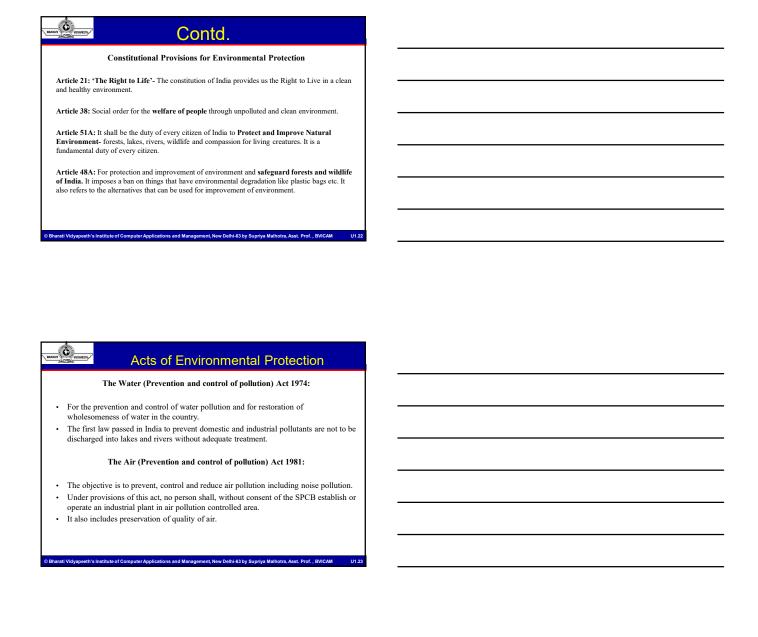
Explosive Substance Act in 1908



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The Stockholm Declaration (1972)

- Held at Stockholm (Sweden) at the UN Conference on Human Environment and Development in 1972.
- It is a Magna Carta of Environmental Law.
- · About 26 principle related to environment and development were laid out in this conference.
- After the conference, India made its 42^{nd} amendment in the constitution and incorporated Article 48A and Article 51A.





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Role of Media in Conservation

- As far as the environmental issues are concerned, media either as a risk communicator or as a promoter of data, information, and good practices of any kind, should smooth the progress of people to become more environmentally responsible and cultivate environmental awareness. Additionally, media could help people associate reasons and effects, thus to get informed and to reflect upon the given information, in order to understand the origins and the causes of the major environmental problems. Mass Media plays an important role in creating environmental awareness among people.
- > Types of media for environmental awareness
- Radio happens to be the cheapest and easily accessible. The signals and frequencies of radio
 are covering almost the whole country. Thus it can be used as a significant medium of creating
 environmental awareness. The latest drive of radio channel FM 93.5 "MOUNT GHAZIPUR"
 has created awareness among Delhiites regarding the hazards of culminating waste on our
 environment. The weekly half-hour radio magazine Living Planet tells environment stories
 from around the world, digging deeper into topics that touch our lives every day.

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- Television is another very good mode to communicate environmental issues among the society. Certain television channels like Discovery Channel, National Geographic Channel, animal planet Channel broadcast exclusively on endangered species, wild and sea life. Doordarshan Channel is being telecasted all over India and has regular programs on Environment. "Earth Matters" focuses on one special environmental problem. It offers information on the sources, explains the consequences of the problem considered and gives suggestions for the solution by changing individual behaviour.
- Print media is a powerful ally in educating the public on environmental matters. Newspapers, journals, magazines, etc. play a key role in providing relevant information with required facts and pictures to the community. Articles and analyses explore the environmental awareness in the common man about environmental problems. Sometimes separate column is there for environmental issues;
- Social Media. Today's young generation makes ample of use of social media and internet platforms. They have emerged altogether as a new form of media. Facebook, Twitter, WhatsApp are connecting today's generation. Certain global environmental issues can be discussed on these platforms continuously. Government agencies and industries are also utilising social media as a preferred tool of communication with the mass. Green on Facebook: One Page for Eco Resources, Adopt a Tiger Through the World Wildlife Fund, etc are some Facebook pages on environment.

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Role of Media In Awareness

- Provides geographical knowledge Newspapers, radio, television, and even the internet are providing a comprehensive understanding of geographical knowledge to people. What is happening in the world today, which place has been ignored and the relevant representations made through different forms of media produces deep effects on the people.
- Identification of forces affecting nature Currently, human beings are building an artificial man made environment by over utilising the natural resources in the name of economic and social development. Media can report and educate people about certain forces and activities that adversely affect our environment.
- Conservation of natural resources Our primary target is not only controlling the wastage of various sources of energy like oil, gas, coal, etc. the main focus should be on certain relative aspects which serve as a means of environmental protection.
- Vocational information Media also helps in providing vocational and professional information to a larger group of the community. Recent programs on guidance about conversion of waste and garbage into compost by households to save environment is an illuminating illustration.
- Spreading awareness and civic responsibility -Media create awareness among people and enlighten them about different problems of society. Media educates people about their roles in changing society through certain events and programs. Helps to know how people can contribute towards environmental protection and sustainability and build healthy environment.

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