

ASSIGNMENT – 1

CHANGES IN THE LOCALITY

The environment undergoes constant changes over a period of time. But due to pressure from modernization , urbanization and industrialization there is a sudden spurt in the changes occurring in every aspect of our environment. It is due to changes in biodiversity, climate, land use and water bodies.

1. The way people are dependent on local and global ecosystem services :- Ecosystem services are broadly subdivided into provisioning, regulating, cultural and supporting services for our daily requirements of food, water, climate, clothing and shelter. There is a major shift in the people as well as provisioning ecosystem services are connected.

A. Provisioning ecosystem services:-

- 1). Water :- Women of the house usually from the rural area used to fetch water from wells, tanks etc in their neighborhood.
- 2). Food :- Due to globalization , fruits and crops grow in four countries are reaching Indian markets , now owing to biotechnological innovations. Green revolution has created abundance of food. The white revolution has indeed made milk easily available everywhere at anytime.
- 3). Fuel :- From mud chulla to microwave we see the transition in the past 40 to 50 years. In rural areas gobar gas has made an impact.
- 4). Timber and Fiber :- There is a shift in the utilization of timber for the purpose of furniture and as a building material. Fiber like cotton or pure silk have replaced nylon, terylone, terecot etc. are popular these days.

B. Regulating ecosystem services :- Since the loads of waste are being dumped into the environment, regulating ecosystem services are falling short.

C. Cultural ecosystem services :- This is provided to people from their daily and stressful routine. Thus aspects are vanishing due to human encroachment and destruction of natural areas.

D. Supporting ecosystem services :- Soil formation or nutrient cycling are hampered due to human interference.

2. **Land Use** :- No vacant land is available in mega cities. It is due to rising towers, sprawling industries and conversion of agricultural land into other purpose have posed a great threat in landscape.
3. **Population** :- The population is said to be a monster that is eating up our country. It has resulted in the depletion of almost all resources.

ASSIGNMENT – 2

CONSERVATION POSSIBILITIES IN YOUR VILLAGE/ TOWN

A. For biodiversity conservation and sustainable use :-

- 1). Protecting ecosystem.
- 2). Establishing the national park.
- 3). Declaring of community reserves by state government.
- 4). Setting up specialized conservation programs for particular vulnerable and endangered species.
- 5). Setting up WCCB to control poaching of wild animals.
- 6). Conservation of endemic and endangered plant.
- 7). Protecting genetic diversity by IN-SITU and EX-SITU conservation methods.

B. The conservation or sustainable use measures apply in village/town are :-

- 1). Taking care of endangered plants.
- 2). Poaching, killing or hunting of wildlife should be completely banned. Wildlife articles such as tiger skin or ivory should be completely banned or procuring these articles results in death of our precious wildlife.
- 3). Migratory birds should not be killed for a sport or game instead they should be fed and sheltered.
- 4). Encroachment into national parks and sanctuaries should not be done as it may result in animal human conflict, therefore care should be taken to leave area that are rich in biodiversity and disturbed.

ASSIGNMENT – 3

MY ACTION TO CONSERVE BIODIVERSITY :-

List of action that is done by me in my daily chores :-

- 1). Feeding the stray dogs and cats in my building compound. Give them anti rabies vaccine with the help of my veterinarian friend, who work for NGO called ‘ Welfare of street dogs.
- 2). Saving and collecting seeds of fruits that I consume.
- 3). Planting these seeds in plastic milk bag to prepare their saplings.
- 4). Segregation of dry and wet garbage.
- 5). Using wet garbage composting our building compound.
- 6). I do not use insecticidal sprays.
- 7). I avoid eating process and packed food.
- 8). I have my own kitchen garden.
- 9). I explain the importance of trees to the people around me.
- 10). I celebrate all religious festivals by remaining one with nature.

In every action thought and practice, I always think of nature and care for nature as I owe my existence to earth. During festivals of Holi and Vat pournima there is tremendous community pressure as the rituals demand, with the help of my friend and activists, I manage to provide sapling of vad to ladies to fulfill their wishes. Natural disasters like droughts will affect my tree planting, sapling preparation and kitchen gardens as there will be scarcity of water. Natural disaster like earthquakes or tsunami are totally cantastropic they will not spare anything.

Some money is required for executing my actions. It does not demand too much of corpus fund. I therefore do not think that my actions are dependent on the economic factors.

ASSIGNMENT – 4

Ecofriendly product :-

In many way we can be ecofriendly. It is not just the way of life, it is attitude to deal with all the different things that we use or consume wiser manner keeping in mind the delicate ecological process. The most ecofriendly products to be used is a bicycle. The problem of energy requirement does not arise in the case of bicycle and hence it will be the most suitable vehicle in the years to come.

2). Waste management system :-

The city's system of collection of waste from door to door with the help working of municipalities. Some people may also employ private sweepers to do their job. All the waste is collected and dumped into municipality vans which eventually carry these matters to the dumping ground. These are scrap dealers known as Bhangarwalas who gather all the non-biodegradable matter like metals, wood, plastic from the people. Therefore, the waste matter should be first at the source by separating the biodegradable and non-biodegradable material. The biodegradable material can be composted at society community units or at individual terraces and balconies. If the proper procedure is used it will not emit any foul odour. Use of earthworms is also an ecofriendly alternative to reduce the mass of garbage heaps.

ASSIGNMENT- 5

ISSUE REGARDING ENVIRONMENT FOR HUMAN WELLBEING IN YOUR AREA

Dimensions to describe human wellbeing have been listed down by commission on the measurement of the economic and social progress of UN in 2009.

- 1). Material living standards
- 2). Health
- 3). Education
- 4). Personal activities including work.
- 5). Political voice and governance
- 6). Social connections and relationships
- 7). Environment
- 8). Insecurity of an income as well as physical nature.

Out of all these dimensions, issues regarding ambient environment pass many problems such as scarcity of pure drinking water, good and hygienic food, clean air to breathe, heavy polluted atmosphere everywhere. As regards the above issues about the environment, the information can be obtained from state departments.

RIT (Right to Information)

As a student we can also work on some fronts for pollution levels, we can collect samples and analyse with these sample chemical tests. The results could be published in the form of reports which could be forwarded to the competent authorities. As regards documentation of biodiversity and its laws, we can collect data on floral and faunal of areas which are easily accessible to us through compulsory projects, works we gather voluminous data and publish it.