Ecological Conservation

Water and Energy Conservation

1. ***Water*** is a very important and precious resource for life.
2. ***Water Conservation*** covers policies, strategies and activities to manage fresh water as a sustainable resource.
3. ***Ways to conserve water indoors:-***
    - Ensure that there are no leaks in your house in the pipelines, tapes and toilets.
    - Use water efficient flushes and if possible toilets with dual flushing systems.
    - Close the taps while brushing your teeth, shaving or soaping your face.
    - Use remaining water from washed clothes for cleaning floors.
    - Use appropriate amount of detergent for washing clothes.
    - Close the shower tap while soaping your body.
    - Water the lawn and garden in the morning or evening when the temperature is cooler to minimize evaporation.
    - Never throw water unnecessarily on road, instead it can be used for gardening and cleaning.
    - Avoid unnecessary flushing of toilets.
    - Use minimum amount of water to bath.
    - Do not leave the tap running while washing dishes in the kitchen.
    - Install small shower hoods to reduce the flow of water.

4. ***What are the practices for water conservation?***
    - Water conservation practices for water utilities
    - Agricultural water conservation practices
    - Industrial and commercial water conservation practices
5. ***Rain water harvesting*** means collecting and storing the rainwater that run off in our own house, village, town or city.
6. ***Rain water harvesting:-***
    - It means accumulation and storage of rainwater for reuse, before it reaches the aquifer.
    - The water collected is just redirected to a deep percolation pit.
    - The harvested water can be used as drinking water too, water storage tanks can be accessed and cleaned when needed.
7. ***Why we have to harvest rain water?***
    - To arrest ground water decline and augment ground water table.
    - To increase the water quality in aquifer.
    - To conserve surface water during monsoon.
    - To reduce soil erosion.
    - To instil a culture of water conservation.

8. ***Types of Rainwater Harvesting systems:-***
    - Ground catchment systems
    - Roof catchment system
    - Sub-surface dyke

Energy Conservation

9. ***Definition:*** Energy conservation is the management of processes and policies, designed to reduce water usage.
10. ***Energy Conservation measures:-***
    - Energy-saving buildings designs
    - Use of energy efficient equipment / implements
    - Public lighting
    - Public transport systems
    - Energy Efficient Infrastructure
    - Preventing pilferage
    - Use of non – conventional source of energy.

11. Use of Non – conventional sources of Energy:

- Solar energy
- Wind energy
- Biogas