



## Unit III: Natural Resources

### Part – A

1. **State the benefits of dams. [Apr/ May 2021]**

**Recreation**

**Flood Control**

**Water Storage**

**Irrigation**

2. **State about the effects of practicing modern agriculture. [Apr/ May 2021]**

Agriculture contributes to a number larger of environmental issues that cause environmental degradation including: **climate change, deforestation, biodiversity loss, dead zones, genetic engineering, irrigation problems, pollutants, soil degradation, and waste.**

3. **Outline the fertilizer-pesticide problems. [Apr / May, 2019]**

The fertilizer related problems are micronutrient imbalance, nitrate pollution and eutrophication.

4. **Write any two adverse effects caused by overgrazing.**

[Apr / May, 2019] Land degradation, Soil erosion and Loss of useful species (any two)

5. **Define eutrophication. [Apr / May, 2019]**

Excessive use of N and P fertilizers in the agricultural fields leads to another problem, which is not related to the soil but relates to the water bodies like lakes. A large proportion of nitrogen and phosphorous used in the crop field is washed off and along with run-off water reach the water bodies causing over nourishment of the lakes, a process known as Eutrophication.

6. **What are renewable and non-renewable resources? [Apr / May, 2019,**

**Nov / Dec, 2019] Renewable energy resources:** Resources which can be generated continuously in nature and are not inexhaustible. Eg: Wood, Solar energy, wind energy, tidal energy, hydro power energy, biomass



energy, bio-fuel, geo-thermal energy.

**Non-renewable energy resources:** Resources which have accumulated in nature over along span of time and cannot be quickly replenished when exhausted. Eg: Coal, Petroleum, natural gas and nuclear fuels like uranium and thorium.

**7. What is habitat fragmentation? [Nov / Dec, 2019]**

Sometimes the habitat is divided into small and scattered patches. This phenomenon is known as habitat fragmentation. This may be due to either forest fire (either man-made or natural) or some other man-made activities.

**8. Write about afforestation. [Nov / Dec, 2019]**

**Afforestation:** It is the process of planting and growing forests. It usually takes place in areas that have lost their trees.

**9. List some ways to protect the soil. [Apr / May, 2018]**

Reforestation, Till farming, Contour farming, Terrace farming, Alley cropping / Agro- Forestry and Fallowing.

**10. Define the term “Man-induced landslides”. [Apr / May, 2018]**

Movement of earthy materials from higher region to lower region due to gravitational force is known as landslides. Sometimes, the landslide disaster may also happen due to human activities, then it is called “**Man-induced landslides**”.

**11. What is desertification? Give any two reasons for it. [Nov / Dec, 2018]**

The loss of productivity of soil as a consequence of degradation or pervasive dryness is called desertification.

**Reasons:** Deforestation, overgrazing, mining and quarrying

**12. Write any two problems caused by high saline soils. [Apr / May, 2017]**

- Salinity can decrease plant growth and water quality.
- Excess salt affects overall soil health, reducing productivity.
- It kills plants leaving bare soil that is prone to erosion.

**13. Differentiate between deforestation and**



**forest degradation. Deforestation:**

- Deforestation is defined as the destruction of forest or elimination of forest resources due to many natural or man-made activities.
- Cannot be recovered

**Forest Degradation:**

- It is the process of deterioration of forest materials.
- It can be recovered.

**14. Enumerate the desired qualities of an**

**ideal pesticide.** An ideal pesticide

must kill only the target species

It must be biodegradable

It should not produce new pests

It should not produce any toxic pesticide vapor

**Part – B**

1. Explain the process of generation and utilization of surface water and ground water. [Apr/May 2021]
2. Summarize on the importance of utilization of bio gas and bio fuel in the energy sectors. [Apr/ May 2021]
3. What are the ecological benefits of forests, explain the environmental impacts of deforestation? [Apr / May, 2017]
4. What is deforestation? Enumerate and discuss the various effects of deforestation. [Apr /May, 2018]
5. Discuss the impacts of handling the mineral resources for extraction and subsequent utilization, on the environment. [Apr / May, 2019, Apr / May, 2018, Apr / May, 2017 (Part C)]
6. Explain any two conflicts over water, confining to our nation.
7. Explain the adverse environmental impacts of modern agriculture. [Apr / May, 2017]
8. Explain the role of an individual in the conservation of natural resources. [Apr / May, 2018]
9. What are the measures recommended for conservation of natural resources? [Apr / May, 2018]



- 10.** Discuss briefly on the consequences of overdrawing of ground water. [Apr / May, 2019]
- 11.** Give a brief account of renewable energy resources and their significance. [Nov / Dec, 2018]