

Q#8 Write a short note on any of the followings

a) Wet-land (5)

Wetland

Wetland is the place where water saturate seasonally or permanently. Wetlands play a significant role in ecosystem for maintaining biodiversity, preventing floods and creating hinderance to air pollutants like carbon and other water pollutant. It add more nutrients to the land. By filtering pollutant

Formation of Wetlands

Natural Process:

(i) Hydrological Process
Through this process the wetlands are created naturally because waters flow from rivers and creates the wetland.

Artificial Process

(ii) Restoration project
It is the artificial method by preservation of already existing wet-land by creating artificial means to retain waters on surface.

(i) Geological process

Due to changes in earth surface such lands are created naturally where water started accumulating.

Types of wetlands

- 1 → Marshes (Around river bank)
- 2 → Swamps (Characterised by woody trees)
- 3 → Bogs (featuring unique plants)
- 4 → Mangroves (Salt tolerant trees)

Advantage of wetlands

(i) Essential for flora and fauna

It contains water & nutrient important for flora and fauna

(ii) Increase Biodiversity

It increase the numbers of habitat in area

(iii) Prevent floods

It prevent floods by absorbing significant water

(iv) Absorb Carbon

It absorb carb to prevent the environmental pollution

(ii) Construction of wet

These are intentionally built wetlands

that are created to replicate the functions of wetlands

Disadvantages of wetland

(i) Encroachment of other species

Many species came and encroach on other species

(ii) Habitat for Mosquitoes

It become the spot for breeding of Mosquitoes

(iii) water quality concern

It raise question on the water quality of land

5- Food Insecurity

Food insecurity is due to that when there is uncertainty that a household would be able to get enough food for survival and sustainability. According to Global Hunger Index 48 countries are facing food crisis. Pakistan ranked 102 in Global Index report.

Cause of Food Insecurity

(i) Population

Increasing population is creating food insecurity as according to US Bureau of statistics World population has reached 8 billion.

(ii) Climate effect

Climate has the adverse effect on the plant (IUCN) International Union on conservation of Nature preserved the reports that 75% of agricultural is lost due to climate effect.

(iii) Impacts due to war

Alone in Afghanistan there 29 million people are urgent need of humanitarian aid (United Nation food program).

According to international reports
Pakistan is facing **IPC 3** food crisis
which already depict the state of
emergency

Steps to control food Insecurity

- i) controlling population
- ii) limiting the exploitation of resources
- iii) Preventing wars and establishing peace
- iv) Controlling climate crisis

Floods and Impacts on Pakistan

As Pakistan has witnessed the
Series of floods. According to
Economic survey of Pakistan floods
have effected the $\frac{1}{5}$ area of
Pakistan and it hardly hit the
agriculture sector and **11ac Live**
stocks. It further exacerbated the
food in security in Pakistan. As
33million Peoples were directly or
indirectly effected by the flood