

Answer 5

## Agenda-21

It is a comprehensive action plan designated globally, locally by organizations of the UN system, Governments and major groups. Addressing the problems of today preparing the world for the challenges to the next century. It is a global commitment of political systems for environmental cooperation.

Objectives:

To achieve sustainable development challenges must be addressed locally, nationally and world wide.

There are 40 chapters and 1500 main sections in agenda 21. Also called Paris agreement or COP 21.

Cooperation of Nations world wide to reduce carbon emission, green house gases emission.

Funds will allocated to developing countries.

Reforestation projects of billions of trees to reduce carbon emission and increase world life sustainable.

Give proper explanation



Eutrophication  
Water body overly enriched with nutrients. Increased in production of algae and microorganisms.  
Degrade water body quality  
Depleted oxygen.

Cause

Excessive use of fertilizers

Pollutants

detergents

Sewage discharge

Add proper details

Types

① Anthropogenic  
means man made

② Natural

By natural activities  
Slower than anthropogenic

Effects

Depleted dissolved oxygen  
Decreased Biodiversity  
Invasion of algae  
Invasion of microorganisms

Solutions

To control pollution

To control acid rain

By controlling emission of pollutants  
through sustainable development  
like Cops, projects, policies

Answer - 4

Food insecurity  
The condition not having access  
to sufficient food to meet  
basic demand. People die  
every day due to hunger  
or food insecurity

Caused due to lack of  
purchasing power, lack of  
farming, lack of machinery  
fertilizers, seeds, and  
modern technologies - Main  
cause is lack of education &  
skill

Main threat of food insecurity  
is climate change. Acid rain  
carbon emission, increase in  
temperature. Precipitation patterns  
changes due to climate change  
causes extreme weather conditions  
Resulted in reduction of  
productivity

Measures taken to overcome food  
insecurity and climate change is  
formation of dams, canal  
irrigation channels for water  
storage.

development of infrastructure,  
development in Energy sector  
Introducing modern and advanced  
techniques to overcome pollution  
carbon emission. and get  
clean environment and atmosphere

Properly writing questions is  
important

Try to add reports

Proper flowcharts

Indicators etc

Where required



## EIA

A tool used to assess the significant effects of a project of environmental development.

It enables the decision makers to analyse the effect of developmental activities. Encouraging adaptation of mitigation strategies in the developmental plan.

## Steps

Informal  
Insufficient

Establish boundaries of analysis  
Impact assessment and mitigation  
Impact management  
Reporting  
Review & Licensing  
Monitoring

## Importance

Protecting environment  
Promoting sustainable development  
Identification potential impacts  
Proposing mitigation measures  
Designation of sustainable programs.

Assessors. (3)

Solid waste management  
the collecting, treating and  
disposing of waste materials  
wastes.

Types of SWM

Recycling

Compositing

Land filling

Incineration

No proper explanation

Principles of SWM

7 R's that are

Rethink

Refuse wastes

Reduce wastes

Reuse wastes

Repair wastes

Regift wastes

Recycle wastes

The main 3 R's are Reduce  
& reuse, recycle

Salient features of SWM 2022

→ Segregate solid waste into five  
categories

→ Rules are applicable to notified  
urban local bodies, towns,  
Industrial townships

→ Provide exact and elaborate  
criteria for the identification  
of sites for landfills and  
waste processing facilities



## Biodiversity

Describe the variety of living beings on earth - It is degree of variation of life, encompasses microorganism, plants, animals and ecosystem such as forests, rainforests, deserts

Refers to the abundance of variety of different species living with in a particular region

Biodiversity has three essential elements

Genetic diversity

Ecosystem diversity

Species diversity

## Causes

Habitat loss, hunting, destruction

Invasive species, habitat fragmentation

Overexploitation, control of pest & predators

Pollution, population

Climate change, acid rain

Global warming, ozone depletion

## Effects

Biodiversity resulted in :

Loss of cultural heritage

Traditional knowledge

Spiritual connections

Increase in vulnerability to natural disaster

Health, ecosystem, floods, storms, landslides

Answer . 8

## Q1) Water Pollution

The contamination of water sources by introducing pollutants by anthropogenic and natural resources which make water unusable for drinking, cooling, cleaning, swimming and other activities.

Pollutants include trash, bacteria, pest, parasites, chemicals.

Main cause of water pollution is sewage and waste water treatment and fossil water fuel power plant wastes.

### Effects

Causes illness, diarrhea, cancer and leading death. skin diseases, intestinal diseases, malaria.

## Q2) Remote Sensing

Process of detecting and monitoring physical characteristics of an area by measuring its reflected and emitted radiations at a distance.

Main types are ground based and satellite platform are used in sensing some common devices tripod towers and cranes.



Give proper explanation

Remote sensing collect information to characterize natural features to observe surface areas and objective, GIS, GPS system is the main example of remote sensing to collect information processed and provide information about mapping, weather, satellites

Give special attention to your presentation

③ Ecological restoration to recreate, initiate the recovery of ecosystem that has been disturbed change in ecosystem disturb structure and function of environment Ecological projects implement throughout the addition of habitats to fish wildlife service refuges, national parks, control & manage streams rivers, riparian areas, birds nesting sites, wetlands etc

You are not writing things properly  
Add question number  
Add proper headings and relevant reports

Use markers

Principles are  
Restoration contributes to Global Goals  
Promote environmental inclusivity  
Require diverse action  
Aim to recovery  
Addresses where we went wrong