

HINDI /ENGLISH MEDIUM

1. CLIMATE CHANGE & INTERNATIONAL PROTOCOL

1. BASIC CONCEPT: Climate Change

- Global Warming
- Causes: Man Made & natural
- Green House Effect
- Green House Gases
- Carbon Emission
- Green House gas Potential
- Climate Adaptation & Climate Resilience
- Carbon Footprint & Ecological Footprint
- Carbon Fertilisation
- Impact of Climate Change
- Agriculture
- Water resource
- Cry sphere
- Geo engineering
- Carbon Capture / Carbon Sequestration:
 - Green Carbon, Blue Carbon
- Iron Fertilisation
- Ocean Acidification
- Aerosol Injection techniques
- Sun shade Geo-engineering
- Carbon Credit
- Carbon Offsetting

2. CLIMATE CHANGE & International Effort: 1972 to 2017

- 1972 Conference
- WCC
- 1987 : World Commission on Environment and Development (Our Common Future)
- 1988: IPCC
 - National Green House Gas Inventories Programme
- 1992 (United Nations Conference on Environment and Development)
 - UNCBD
 - UNFCCC
 - UNCCD
 - Agenda 21
 - Rio Declaration
 - Forest Principle
- Commission on sustainable Development
- Green International 1997 Kyoto (General Assembly Special Session on the Environment)
 - LULUCF
 - CDM
 - JI
 - AAU
 - Certified emission reduction
 - Emission reduction unit
 - Annex Countries, Non Annex Countries
 - Annex A, Annex B
- 2001 Marrakesh Accord
 - Adaptation Fund
 - Mitigation Fund



- Special Climate Change Fund
- Least Developed Countries Fund
- 2002 (World Summit on Sustainable Development)
- 2005 Kyoto Enforcement
- 2008 REDD
 - Forest Investment Program
 - BioCarbon Fund Initiative for Sustainable Forest Landscapes
 - Forest Carbon Partnership Facility
 - Readiness Fund and the Carbon Fund
- 2010 GCF
- 2017: Bonn
- 2018: Katowice
- Madrid CoP (Santiago)
- 2012 (UN Conference on Sustainable Development): Report **"The future we want"**
- 2013 (Warsaw International Mechanism)
- 2015
 - Paris Summit
 - INDC
- 2016
 - CORSIA
 - London on Shipping
 - Marrakesh
 - U.N. Conference On Housing And Sustainable Urban Development
- 2021 Glasgow: IMEO
- 2022: Sharm El Sheikh
 - ✓ MARS

3. Other Protocol & Convention

- Basel
- Stockholm
- Aarhus Convention
- Espoo Convention
- CMS
- Convention on Long Range Trans boundary Air Pollution (CLRTAP)
- Ramsar
 - Montreux
 - Changwon declaration

4. Other Environmental Institution

World

- IUCN
- WWF
- IMO
- FAO
- WCS
- Wetland International
- Birdlife International
- GEF
- ITTO
- Global Green Growth Institute
- Arctic Council UNESCO
- MFF
- The Economics of Ecosystems and Biodiversity
- TRAFFIC
- CA|TS
- One Planet Summit
- Snow Leopard
- Coalition against Wildlife Trafficking (CAWT)
- GIHAS
- UNEP
 - Absorb, Anticipate, Reshape (A2R)
 - Climate and Clean Air Coalition
 - GRID-Arendal
 - The Portfolio Decarbonisation Coalition (PDC).....

Various Indexes/ Reports

- Climate Change Performance Index: German watch and Climate Action Network Europe
- Emission Gap Report
- Environment Performance Index: WEF
- Sustainable Development Goal Index: Sustainable Development Solutions Network

2. INDIAN LAWS & INTERNATIONAL INSTITUTION

1. India Institutional Structure

Laws:

- 1927
- 1972
- 1974
- 1980
- 1981
- 1986
- 1991
- 2002
- 2006
- 2010
- 2016
- PPV&FRA

Pollution Rules

- ❖ The Plastic Waste Management Rules, 2016
- ❖ 1991 and Rules 1991
- ❖ Noise Pollution (Regulation and Control) Rules, 2000

2. National Policies

- National Wetland Policy 2017
- National Wildlife action plan 2017-31
- Draft National Forest policy 2018

3. SCHEMES:

- NAPCC
 - National Mission for Sustainable Agriculture
 - National Mission on Strategic Knowledge for Climate Change
- National Solar Mission
- National Mission for Enhanced Energy Efficiency
- National Mission on Sustainable Habitat
- National Water Mission
- National Mission for Sustaining the Himalayan Ecosystem
- National Mission for a 'Green
- National Air Quality Monitoring Programme

❖ The Bio-medical waste management Rules, 2016

- ❖ The Solid Waste Management Rules, 2016
- ❖ The e-waste (Management) Rules 2016
- ❖ The Construction and Demolition Waste Management Rules, 2016
- ❖ The Manufacture, Storage and Import of Hazardous Chemical (Amendment) Rules, 2000
- ❖ The Batteries (Management and Handling) Rules, 2010 with Amendments
- ❖ CRZ Rules
- ❖ The Public Liability Insurance Act

4. INDIAN INSTITUTIONS

- BNHS
- NGT
- Other Covered with Indian Laws
- EESL
- TERI (lightning a Billion Lives, Urban Service Environmental Rating System))
- Madras Crocodile Bank Trust
- BEE
- National Afforestation and Eco development Board

5.MISC

- NAPCC
- Namami Gange
- Eco Mark
- Bee Rating
- Ganga Action Plan
- NGRB
- GRIHA
- LEED
- PAT Scheme
- Eco Mark

3. ENVIRONMENT POLLUTION

Environment Pollution

1. Type :

- Primary & Secondary
- Qualitative & Quantitative,
- Biodegradable & Non Biodegradable
- Pollution Check (BoD & CoD)
- Ocean Acidification

2. AIR POLLUTION

- Sources
- Control Measures
- Smog
- Fly Ash
- India Indexes (AQI, NAQI , CEPI etc)
- Ozone Layer
 - Montreal to Kigali
 - ✓ Article 5 Group 1
 - ✓ Article 5 Group 2
 - ✓ Non Article 5 Countries
- Acid Rain
- Freezing Year
- Baseline Year

3. Water Pollution

- Point Sources & Non Point Sources
- Eutrophication
- Red Algal Bloom
- Dead Zones

4. Noise Pollution

5. Water pollution

- a. Types and sources of water pollution
- b. Indian standards for drinking water
- c. Impact on humans, plants and animals
- d. Eutrophication
- e. Red Algal Bloom
- f. Dead Zones

6. Soil Pollution

7. Marine Pollution

8. Thermal Pollution

9. E-Waste

10. Solid Waste

- a. Solid Waste - types and sources
- b. Causes and effects
- c. Control measures of urban and industrial wastes
- d. Bio-methanation of solid waste

11. Land degradation

12. Biodiesel

- BS Standard
- Methanol & Ethanol



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- PM JI VAN
- Biofuel Policy 09,18
- National Biofuel Coordination Committee
- Sustainable Alternative Towards Affordable Transportation

4. BIODIVERSITY

1. Definition

2. Biodiversity

Levels of Biodiversity

- Genetic,
- Species
- Ecological

Measurement of Biodiversity

- Alpha
- Beta
- Gama diversity

3. Distribution: Terrestrial, Marine

4. Types of Species

- Concept of 'r' and 'k' species
- Keystone Species
- Indicator Species
- Umbrella Species
- Indigenous Species
- Edge Species
- Cenospecies
- Cryptic Species
- Sibling Species
- Invasive Alien Species

5. Threat to biodiversity

6. Other Concepts

- Concept of Ecotone
- Edge Effect
 - Biodiversity Conservation (In Situ, Ex Situ)
 - Bio Prospecting & Bio Piracy
 - CBD (Cartagena & Nagoya)
 - CBD Law 2002, TKDL

7. Bio Diverse Area

- Biosphere Reserve
- Man & Biosphere Reserve
- Biodiversity Hot Spot
- World Heritage sites
- IUCN & Red Data Bok

5. SPECIES

1. India Conservation Effort

- Integrated Development of Wildlife Habitat: 22 Species
- Project Tiger 1973
- Project Elephant 1992
- Project Hangul
- Vulture Conservation
- Crocodile Conservation

2. Other Species

- Blackbuck
- Irrawaddy Dolphin
- Turtle
 - Batagur Species
 - Hawksbill
 - Black Soft Shell
 - Green Turtle

- Turtle Sanctuary
- Turtle Conservation Fund
- Snow Leopard
- One Horn Rhino
- Ganges Dolphin
- Olive Ridley
- White Tiger
- Cheetah

6. BASIC CONCEPTS

1. ECOLOGY & Its Component

- Biotic
- Abiotic
- Energy

2. Biotic Factors & Interaction with Environment

- Amensalism
- Predation
- Parasitism
- Competition
- Commensalism
- Mutualism
 - ✓ Facultative
 - ✓ Obligate

3. Adaptation

- Homeostasis
- Allen's Rule
- Conformer
- Regulator
- Hibernation
- Aestivation
- Diapause

4. Ecological Principles & Properties

- Hierarchy Principle
- Basic terminology of ecology
 - Species
 - Population
 - Bioceonosis
 - Geobioceonosis
 - Aute-ecology vs. Syn-ecology
 - Biome/Biochore/Formations
 - Ecades/Ecophene/Habitat Forms
 - Ecotypes/Ecological races/Physiological races
 - Natural Capital

- Ecological equivalence
- Ecological amplitude

5. Ecosystem Dynamism

- Ecological Production & Productivity
- Food Chain: Grazing & Detritus
- Food Web
- Ecological Pyramid
- Energy Flow
- Ecological Niche
- Ecological Efficiency
- Gause's rule
- Sere
- Bio Accumulation
- Bio Magnification
- Biological Succession
- Ecological Services

6. Bio Geochemical cycle

- Nitrogen
- Carbon
- Phosphorus
- Sulphur

7 Basis of Ecosystem classification

→ Introduction, types, characteristic features, structure and function of the following ecosystem:-

- Forest ecosystem
- Grassland ecosystem
- Desert (Hot and Cold) and Desertification-causes
- Aquatic ecosystems and its types (Fresh Water & Marine and Lotic & Lentic)
 - : Mangroves- characteristics; Coral reefs-

types, threat and Coral
bleaching; Wetlands-types,
national wetland

- conservation program
- Techno-ecosystem
 - River Continuum Concept

Scan to watch PYQ Analysis Environment & Ecology:



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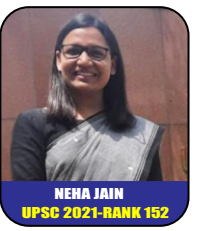
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