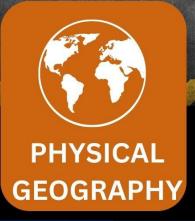
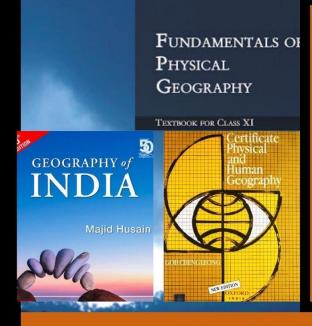
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#### **Environment, Ecology, Biodiversity and Climate Change**

Origin of Life forms Ecosystem functions Adaptation

Life on earth Ecosystem Definitions Homeostasis

Basic Concepts of Ecology Functions and Properties of Interaction between Species

Ecotone

Terrestrial ecosystem

Types of Ecology Ecosystem

The Structure/Components of Ecosystem Endemic Species

ological Hierarchy Ecosystem

Scope of Ecology Abiotic Components Keystone Species

Habitat & Ecological Niche

Biotic Components

Indicator Species

Deep and Shallow Ecology Ecosystem Dynamics Invasive Species

Ecological Principles Flow of Energy in Ecosystem Speciation

Ecological Community Trophic Levels Terrestrial Ecosystems

Structure and Characteristics of Food Chain

a Community

Types & Significance of Food Forest Ecosystem in India

Stratification Chain

Ecotone Food Web

Food Web Tundra

Ecological Dominance Models for Energy Flow Deserts

Seasonal and Diurnal Ecological Productivity

Fluctuation Mountains

Periodicity Ecological Pyramid Aquatic Ecosystem

Biological Control Aquatic ecosystem

Population Ecology Factors affecting the

Types of species productivity of aquatic

Ecological Succession ecosystems

Population Ecology
Types and Process of Succession Fresh water ecosystem

**Population Growth Models** 

Climax Community Marine ecosystem

Methodology of Tiger census
Range of Tolerance , Maximum
Marine Organisms

Range Methodology of Lion Census

Plankton

Difference between Ecology , Adaptation of Species and

Environment and Ecosystem Interactions Phytoplankton

Factors Affecting Phytoplankton Biodiversity	Human Influence on Phosphorus Cycle	IUCN Red List and Classification Scheme
Importance of phytoplankton	BIODIVERSITY	Biodiversity Conservation
Zooplankton	Basics of Biodiversity	Scheduled Animals in the Wildlife Protection Act
Sea-grass	Biodiversity	In-situ methods of Conservation
Seaweeds	Types of biodiversity	
Human Modified Ecosystems	Patterns of biodiversity	Protected Area Categories
Nutrient Cycling	Bio-geographical classification	Forms of Protected Areas
Concept of Biogeochemical	of World	Biosphere reserves
Cycle	Bio-geographical classification of India	Sacred forests and sacred lakes
Parts of a Biogeochemical Cycle	Functions of biodiversity	World Heritage sites
Types of Biogeochemical Cycle	Hotspots of biodiversity	Geo-heritage sites
Carbon Cycle	Bio informatics	Advantages of In-situ conservation
Carbon cycle: Long term and Short term	Eco Regions	Disadvantages of In-situ
Carbon act as Climate Buffer	Role of Traditional Knowledge in	conservation
Human Impact on the Carbon	Biodiversity	Ex-situ methods of Conservation
Cycle	Biopiracy	Advantages of ex-situ preservation:
Effects of high concentration of Greenhouse Gases	Animal and Plant Diversity	Disadvantages of Ex-situ
	Plant and Animal Kingdom	conservation
Hydrological Cycle	Marine Mammals	Zoological Parks
Nitrogen Cycle	Egg laying Mammals	Botanical Gardens
Human Impact on the Nitrogen Cycle	Marsupials	Seed banks
Oxygen Cycle	Threats to biodiversity	National Parks
Sulphur Cycle	Causes of Biodiversity losses	Wildlife Sanctuaries
Human Impact on the Sulphur	Effects of Loss of Bio-Diversity	Biosphere Reserves
Cycle	Extinction of species	Species based conservation
Phosphorus Cycle	Mass Extinction	programmes
		Project Tiger

Project Elephant	Major Estuaries in Indian coastal	Threats to wetland ecosystems
Project Snow Leopard	states	Conservation of Wetlands
Vulture conservation project	Monitoring and Prediction of Health of Estuarine and Coastal	About Ramsar Convention '
Crocodile conservation project	Waters	About Asian Water bird Census
Ganges dolphin project	Difference between Lagoon and Estuary	RESOURCE DEGRADATION & MANAGEMENT
Indian Rhino Vision	Estuary ecosystem: Adaptations	Land Resource
Other projects	made in organisms	Causes of land degradation
South Asia Wildlife Enforcement	Conservation of Estuaries	
Network (SAWEN)	Mangroves	Impact of land degradation
Important Coastal and marine Biodiversity Areas	Mangroves in India	Desertification
Global initiative	Importance of Mangroves	Sustainable Land Management
	Mangroves under threats	Forest Resource
State of Protected Areas in the World	Legal and Regulatory	Definition of forests by FSI
MAB – Man and Biosphere	Approaches for Protection	Types of Forest Cover
Programme	Community based mangrove	Forest Survey of India
World network of Biosphere	regeneration	Types of Forests in India
Reserves	Coral Reef	
Biodiversity Hotspots	About coral reefs	Deforestation
CBD – Convention of Biological	Geographical Conditions	Causes of Deforestation
Diversity	Types of Coral Reefs	Consequences of Deforestation on the Wildlife of India
Cartegana Protocol	Uses of coral reefs	
Nagoya Protocol		Strategies for Reducing Deforestation
Aichi Biodiversity Diversity	Concept of Bio-rock reefs	Government Programs for
Estuaries	Threats to Coral reefs	Conservation of Forests
What are estuaries?	Conservation of coral reef	Soil Resource
Types of Estuaries	Wetlands	Soil Characteristics and Soil
	Types of wetlands	formation process
Importance of estuaries  Threats to estuaries	Wetlands in India	Factors Responsible for Soil Formation
	Importance of wetlands	

**Soil Forming Processes** Ocean Thermal Energy **Basics of Pollution** Conversion Soil Profiles and Horizons Sources of pollution **Tidal Energy** Soils in India Effect of Modern Agriculture on Wave energy Environment Soils in World Fuel Cell Effect of Housing on Soil Erosion Environment Microbial fuel cell Problems due to excessive Effect of Power Generation on **Biofuels** irrigation Environment Soil Conservation **Biogas** Effect of River Valley Projects (Water Resource Projects) on Soil health card scheme **Geothermal Energy** Environment **Organic Farming** Solar Energy Effect of Mining on Environment Water Pollution **New Energy Resources Effect of Transportation** Surface Water Resource Renewable Energy and Activities on Environment Development **Ground Water Resources** Effect of Tourism on Petroleum Conservation Sources of Water Pollution Environment Research Association Measurement of Water Classification of pollutants Atomic Energy Bill pollution Pollution Indicator species Civil Liability for Nuclear Causes of Water Pollution Damage Bill Mining and Pollution Harmful effects of water **National Electric Mobility** Mining and Environment pollution Mission Plan Sensitivity of Select Ecosystems Other terms associated with National Policy on Biofuels to Mining water pollution Three Stage Nuclear Power Impact of Mining Algal Bloom Program **Indirect Impact of Mining** Eutrophication Solar Renewable purchase Obligation International Laws on Mining Biomagnifications Petroleum Planning & Analysis Main Act or Statue to regulate Arsenic contamination of water Cell the impact of Mercury Pollution **New Energy Policy Indian Mining Sector** Oxygen Stratification **Energy Organisation** Sustainable Mining **Energy Resources ENVIRONMENTAL POLLUTION** 

Air Pollution

Causes of air pollution	Effects of Noise Pollution on human health	Pollutants and their health
Harmful Effects of air pollution		impacts
Top-ten gases in air pollution	Corrective actions	E-waste status in India
Control of Air Pollution	Biological Pollution	Importance of the E-waste management
Concepts related to Air	Sources of biological pollution	-
pollution	Harmful effects from biological contaminants	Steps taken for combating mounting E-Waste
Smog and its impact		E-waste (Management &
Ozone depletion	Corrective actions	Handling) Rules, 2016
Acid rain	Radioactive Pollution	Biomedical Waste Management
Respirable Suspended	Sources of Radioactive Pollution	Hazards associated with waste
Particulate Matter (RSPM)	Harmful effects of Radioactive	management
Fly Ash	Pollution	Bio-Medical Waste
Bharat stage Norm	Corrective actions	Management Rules, 2016
National Air Quality Index	Thermal Pollution	Hazardous waste and its Characteristics
·	Causes of Thermal Pollution	Hazardous and Other Wastes
Comprehensive Environmental Pollution Index	Effect of Thermal Pollution	(Management & Trans-
Marine Pollution	Control of Thermal Pollution	boundary Movement) Rules, 2016
Sources of marine pollution	Waste Management	Treatments Methods in Waste
Effects of marine pollution	Solid waste management	Management
Concept of dead zone	Types of Solid Waste	Methods for sewage treatment
Concept of Ocean acidification	What is solid waste management?	Treatments Methods for waste management
Oil spill		Hazardous waste treatment
Trash and Other Debris in ocean	Issues in solid waste management in India	
Microplastics and its impact	Waste Management Practices	
Coastal Regulation Zone Notification, 2011	Technologies for the Generation of Energy from Waste	CLIMATE CHANGE
Noise Pollution	Policy on Promotion of City	Climate Change Basics
Causes of Noise pollution	Compost	What is Climate Change?
Noise Levels	E-Waste Management	What is Global warming?

Factors Affecting Climate	Impact of GM crop on	Carbon Sink
Change	environment	Carbon Credit
Causes of climate change	Emission of Methane from agricultural practices	Carbon Tax
Extra-Terrestrial Sources of Climate Change	Sustainable Agriculture Techniques	ENVIRONMENTAL GOVERNANCE
Terrestrial Sources of Climate Change	What is greenhouse effect?	Acts and Policies
Anthropogenic sources of Climate Change	Non green House Gases and Aerosols	Constitutional Provisions related to environment
Urbanization and climate	Radioactive forcing and global	Wildlife Protection Act 1972
change	warming	Environmental Protection Act
Pollution in metros and climate change	Ecological footprint	National Forest Policy
Real estate boom and	Carbon footprint	Biological Diversity Act 2002
environment degradation	Global Warming Potential (GWP)	Schedule Tribes and Other Forest
Urban Heat Island	Climate Change Impact	Dwellers Act 2006
Polythene bags and pollution	Impacts of the Climate Change	
Methane generation from	· ·	Coastal Regulation Zone
waste	Acid Rain	Wetland Rules 2010
Impact of agriculture on climate	El Nino	National Green Tribunal
Agriculture increases Carbon	La Nina	Ozone Depleting Substance
Dioxide Emissions	Ozone Depletion	Rules
Monoculture practice impacts biodiversity	Ocean Acidification	Environment Impact Assessment (EIA)
Pollution due to use of chemical	Global Warming & Health	What is EIA?
fertilizers Soil-related effects	Health impacts of global warming	Brief History of EIA in India
Fertilizer's Effect on the	Mosquito-borne diseases	EIA Process in India
Environment	Ozone depletion and human	The 8 steps of the EIA process
Impact of livestock on	health	Environmental Appraisal Process
environment	Climate change mitigation	FIUCESS
Impact of use of Pesticides on	Carbon Sequestration	Drawback in EIA Process

environment

Recommendations for	Global Environment Facility	CAMPA
Improvement	(GEF)	Joint Forest Management
Environment Management	Agenda 21:1992	Social Forestry
EIA in India – Sectorial Analysis	Commission on Sustainable	National Bamboo Mission
Mining Sector	Development (CSD)	
Agricultural Sector	United Nations Convention to Combat Desertification (UNCCD)	National Action Plan on Climate Change
Industrial Sector	United Nations Framework	National Solar Mission
International Environmental Governance	Convention on Climate Change (UNFCCC): 1992	Ganga Rejuvenation Plan
UNEP, UNDP	Global Climate Finance	Benefits of River Ganga
	Architecture	Facts about Ganga River
Centre for Biological Diversity	India and Climate Change	Pollution and its impacts
WWF for Nature	India's Position with regards to	Ecomark Scheme
IUCN - Red List	policy on Climate Change	Swachch Bharat Mission
Birdlife International	Observed Climate and Weather Changes in India	Swachch Bharat Kosh
International Conventions /	NAPCC	Grants in Aid Scheme
Protocols & their Objectives		National Afforestation Program
Sustainable Development Goals	Indian Climate Change Assessement	National River Conservation
Various Indices relate to		Plan
Environment	Indian Policy Structure Relavant to GHG Emissions	National Mission for Clean
Climate Change Governance	to and cillissions	Ganga
United Nations Conference on	Environment related Institutions in India	National Air Quality Index (AQI)
the Human Environment	institutions in maia	National All Quality mack (AQI)
(Stockholm Conference)	Pollution Control Boards	National Action Programme to Combat Desertification
United Nations Environment	National Green Tribunal	
Programme (UNEP)	National Board for Wildlife	Pradhan Mantri Sauchalay Yojana
Montreal Protocol and Kigali Agreement	Animal Welfare Board	UJALA Scheme
The Earth Summit: United	Central Zoo Authority	Bharat Stage Norms
Nations Conference on	National Biodiversity Authority	Corporate Social Responsibility
Environment and Development (UNCED), Rio de Janerio, 1992	Environmental schemes in India	and Environment Protection
	National Wildlife Action Plan	National Parks

Tiger Reserves of India	Nalanda Model of Water	New Technologies for Waste
Elephant Reserves in India	Conservation	Management
Mike Sites in India	Wetland Rules, 2017	Melting of Antarctic Iceberg
Biosphere Reserves	Permaculture and Monoculture	Melting of Gangotri Glacier
Biosphere Reserves in	Sand Mining Guidelines	Carbon Capture
UNESCO's Map List	Coastal Erosion (Parali Island)	Black Carbon
Ramsar Wetland Sites	Bottom Trawling to Deep Sea	30th Montreal Protocol and
Natural World Heritage Sites	Fishing	World Ozone Day
List of Sacred Groves	'Wadi' Model	El-Nino Caused Record CO2 Spike
Mangrove Sites in India	Re-greening of Village	
_	Commons Project	Glaciers in Asia to sink
Pollution	Warsaw International Mechanism for Loss and	Tropics emit more Carbon
Key activities and Likely Associate Air Pollutants	Damage	Climate change impact on Natural Heritage Sites - Impact
Respiratory Irritants and Toxic	Namami Ganga Programme	on Sunderbans
Chemicals	River Ganga (Rejuvenation,	Marine Diversity in Antarctica
Recent Developments	Protection and Management) Authorities Order, 2016	under threat
Mobile Tower Radiation	Smart Ganga City Scheme	Carbon Credit
Shrinking of Cauvery Delta	- '	2nd Kyoto Protocol
Use of Garbage to Construct	Ganga Task Force	Green Metro System
Road	Ganga, Yamuna termed 'living persons'	Negative Emissions
Moss as Pollution Monitor	National Capacity Building	Geo-engineering Climate
Graded Plan for Air Pollution	Project for Waste Management	Change
Air Quality Index	NGT Bans Plastic	Sequestering CO2
Polluter Pay Principle	Mission Innovation	Bonn Challenge
Pesticide Poisoning	Tribunal – Dumping Waste in	COP-23
Aerosols	Ganga	Air Quality Index likely to be
Anti-Smog guns	Ease in Norms for Sewage Plants	added to 'playing condition"
Particulate matter	Organic Waste to Make Green	HFCs - India to eliminate use by 2030
	Fuel	Kigali agreement

Carbon Neutrality Concept Structure of the Earth's Interior Mass movements & their impact Mechanical and Chemical Marrakesh Climate Change Conference categorization of internal **Erosion Transportation &** structure Deposition International Solar Alliance (ISA) Geology and Rock System Earthquakes and Volcanism Kyoto Protocol (2nd Commitment 2013-20) Minerals Earthquakes: Reasons, Distribution & impact Climate Change Performance Major Elements of the Earth's Index Crust Volcanism PHYSICAL GEOGRAPHY WORLD **Physical Characteristics** Types and distribution of **AND INDIA** Volcanoes Classification -Universe Volcanic Landforms (intrusive) Rocks (Aggregate of Minerals) Theories of evolution of Distribution of Continents & Classification Universe Oceans Igneous Star Formation **Theories** Sedimentary Formation of planets Continental Drift Theory Metamorphic Earth Evolution& Basics **Convectional Current Theory Rocks & landforms Evolution of Earth** Mapping of the Ocean Floor **Rocks & Soils Evolution of Atmosphere** Sea Floor Spreading **Geomorphic Processes Evolution of Hydrosphere Plate Tectonics Endogenic Forces** Earth's Geological time scale Isostasy Diastrophism Origin of life Landforms and their evolution Orogenic The Earth's Movements-Causes of landform Revolution and Rotation and development Epierogenic Seasons **Geomorphic Processes** Earthquakes Inclination of the Earth's Axis Geomorphic Agents and its effects Plate movements Geomorphic Agents and **GEOMORPHOLOGY** Volcanism Landforms Earth's Interior **Exogenic Forces Running Water** Sources of Information about **Denudation Processes** Development of a river System the Interior (Direct Sources, Weathering & its Significance Indirect Sources - Earth Quake **Erosion Landforms** 

Wave, Volcanoes)

Depositional Landforms	Factors affecting Temperature distribution	Oceanic Water Resources (Marine Resource)
Ground Water (Karst Topography)	Horizontal and Vertical	Utilization of oceans by man
Erosion Landforms	Distribution	Water consumption patterns
Depositional landforms	Salinity of the Ocean Water	Water Conservation and
Glaciers	Factors affecting salinity	Management (Techniques)
Erosion Landforms	Horizontals distribution of salinity	Ocean Deposits and Corals
Depositional Landforms	Vertical Distribution of salinity	Terrigenous Deposits
Waves and Currents	Density of Ocean Waters	Volcanic Deposits
Winds	•	Biotic deposits
	Movements of Ocean Water	Abiotic Deposits
Erosion Landforms	Factors influencing Movement	Coral Reefs
Depositional Landforms	Waves	
Landforms across the world	Motion of waves	Probable origin of Coral Reef
Rivers and lakes	Characteristics of wave	Types and significance of Coral Reef
Mountain and Peaks	Tides	Issue of Coral Bleaching
Plateaus	Types of Tides	CLIMATOLOGY
OCEANOGRAPHY	Importance of Tides	Atmosphere
Hydrosphere	Ocean Currents	Composition of the Atmosphere
Water on the Surface of the Earth	Characteristics of Ocean Currents	Structure of the Atmosphere
Hydrological Cycle	Types of ocean currents:	Solar Radiation, Heat Balance and Temperature
Submarine Relief Features	Major Ocean currents of the	Solar Radiation and Isolation
Relief of the Ocean floor	World	Heating and cooling of
Divisions of the ocean floor	Effects of Ocean Currents	atmosphere
	Marine Resources	Terrestrial Radiation
Minor relief features		
Temperature and Salinity	Surface water resources	Heat Budget of the Planet Earth
Temperature of the Ocean	Ground water resources	Temperature

Factors Controlling	Tornadoes	Geological Divisions
Temperature Distribution	Water in the Atmosphere	The Peninsular Block
Distribution of Temperature	Water Vapour	The Himalayas and other
Atmospheric Circulation and Weather Systems	Humidity – Absolute and	Peninsular Mountains
	Relative	Indo-Ganga-Brahmaputra Plain
Atmospheric Pressure	Saturation – Dew Point	Physiographic Divisions
Vertical variation of pressure	Evaporation and Condensation	Drainage System
Horizontal distribution of pressure	Dew	Drainage Patterns
World Distribution of Sea Level	Frost	Drainage System of India
Pressure	Fog & Mist	Himalayan Drainage System
Factors affecting the velocity and direction of the Wind	Clouds	River Systems of Himalayan Drainage
General Circulation of the	Precipitation	-
Atmosphere – Pattern of	Rainfall	Indus river system
Planetary Winds	Snowfall	Ganga River System
Latitudinal Variation of Atmospheric	Sleet Hail	Brahmaputra river system
Heating	Hailstones	Peninsular Drainage System
Emergence of Pressure Belts	Types of Rainfall	River Systems of Peninsular Drainage
Hadley Cell , Ferrel Cell, Polar	World Distribution of Rainfall	Small Rivers Flowing Towards
Cell	Climatic Zones of the World	East and West
Seasonal Wind	World Climate	Climate
Local Wind  Land and Sea Breezes	Koeppen's Scheme of Classification of Climate	Factors influencing the climate of India
Mountain and Valley Winds	Climatic Zones of World	Monsoon
,	PHYSICAL GEOGRAPHY OF	Mechanism of the Monsoon
Air Mass, Fronts, Cyclones and Jet Stream	INDIA	Classical Theory
Air mass & fronts	Physiography of India	Modern theory
Cyclones	Location	Air mass theory
Thunderstorms	Geopolitical Significance of India	Jet stream theory

EL NINO and LA NINA & their	Land Use Planning and Policy	Exploration of Coal Bed Methane
impact	Water Resources	wemane
The rhythm of Seasons	Extent of Water Resources	Non-Conventional Energy Resources
The cold weather season	Water Resource Potential of	
The hot weather season	India	Solar Energy
The southwest monsoon season	Utilization and related problems (Pollution)	Wind Energy  Geothermal
The retreating monsoon season	(Foliation)	Geothermai
Climatic Regions of India	Inter- state water disputes in India	Nuclear Energy Resources: Challenges and prospects in
Soils in India	Water management,	India
Classification of Soils	conservation and Development	Recent Debates on Resources
Soil textures	National Water Policy	Geopolitics of Natural Resources
Issue of Soil degradation & Soil	Mineral Resources	Nessur ses
Erosion	Types of Mineral Resources	Globalisation and Unsustainable exploitation of natural
Soil Conservation	Distribution Pattern of Minerals	resources
Natural Vegetation	in World	Depletion of natural resources
Types of Forests in India	Major Mineral Belts of India	versus Economic Growth
Forest Cover in India	Problems related to mining	Changing Pattern of Land Use and Causes
Forest Conservation	Conservation of Mineral Resources	Water Crisis: Causes, Conflicts and Resolution
Forest Problems in India	National Mineral Policy, 2019	Energy Crisis
	Energy resources	
SOCIAL- ECONOMIC DEVELOPMENT	Classification of Energy	Challenges and constraints faced by coal sector
	Resources	Challenges in Hydropower
Land Resource	Distribution and production	sector
Land-use Pattern and changes	trend of major energy Resources	Renewable Energy: way toward
Problems of Land Resources:		sustainability
Land Degradation: Causes and	Coal	Energy Security: Energy Policy
Impact	Petroleum	and strategy in India
Concept of Land Degradation	Natural gas	AGRICULTURE
Neutrality	Strategic Oil Reserves	Agriculture Basic Terminologies

Cropping pattern	Agriculture Market Produce	Efforts and Remedies to ensure
Agriculture Productivity	Committees: Issues	food security
Agriculture Intensity	National Agriculture Market (NAM)	Agricultural in Discussion
Land capability	Agricultural Produce and	Controversy over GM Crops: Benefits and Issues
Location of agriculture	Livestock Marketing (Promotion and Facilitating) Act (APLM)	Impact of climate Change on Agriculture
World Agriculture Typologies	National Livestock Mission	_
Salient features of Indian Agriculture	National Programme for Bovine Breeding and Dairy	Evergreen Green Revolution for Sustainable Livelihood
Problems of Indian Agriculture	Development (NPBBD)	Rainbow Revolution
Factor Affecting Agriculture	Rashtriya Gokul Mission	Blue Revolution: Impact on Rural Economy
Geographical factors	Agriculture Export Policy, 2018	Climate Smart Agriculture
Institutional factors	Pradhan Mantri Kisan Samman Nidhi (PM-KISAN)	Need of Agriculture
Technological factors	Pradhan Mantri Annadataaay	Diversification
Major Crops and conditions for growth	Sanrakshan Abhiyan (Pm-Aasha)	Mixed farming: Hedging Agriculture Risks
Regionalization of Agriculture	Operation Greens	Problems and Prospects of dry-
Regionalization of Agriculture	Dairy Processing &	zone agriculture
Various Revolutions in	Infrastructure Development	
Agriculture Sector	Fund (DIDF)	Plantation Agriculture: Issues involved
Green Revolution	Fisheries and Aquaculture	Challanger of increasing
Impact of Green Revolution	Infrastructure Development Fund (FIDF).	Challenges of increasing Agriculture Productivity and Production
Evergreen Revolution	Agriculture Census	New 'White Revolution': Need,
White Revolution	Food Security	Scope and Challenges
Operation Flood	Nature of Food Insecurity:	Contract Farming: Benefits and
Blue Revolution	Duration, Severity and types	Challenges
Agricultural Policies and Initiatives	Trend and Pattern in Food Insecurity	Role of infrastructural and institutional
Minimum Support Price:	Causes and Geography of	factors in the recent
Benefits and Challenges	famine	transformation of Indian agriculture
	Key Dimension of food security	

Impact of advanced agricultural A Scheme for Promotion of **Problems and Prospects** technologies on the Innovation, Rural Industry and Bharatmala Pariyojana Environment Entrepreneurship Railways Soil Health Card scheme and Scheme of Fund for rationalisation of fertilizer Regeneration of Traditional Significance and Problems of subsidies Industries **Indian Railways** Food Security: India's Stand Up India **Dedicated Freight Corridors** Vulnerability and way-out Fourth Industrial Revolution Privatisation of Railways **INDUSTRY** Role of Industrial development **Pipelines** Classification of Industries in minimizing regional inequalities Significance, Distribution and Factors affecting location of Challenges Industries Problems of Industrial regions Water Transport Weber's Model of Industrial Factors behind the growth and Location present location pattern of Inland: National Waterways automobile industry in India Losch theory of Profit Factors affecting Inland Maximization Pharmaceutical industry: waterways Locational pattern and reasons Various Industries: Location, Significance and Challenges **Prospects and Challenges** Sugar industry: Problems and Jal Marg Vikas Project challenges of current pattern Iron and Steel Industry Seaways and Oceanic Route Food Processing Industry: **Textile Industry Untapped Potential** Shipping Jute Industry Agro based Industries: Problems Major Ports of World and India and Prospects Auto Mobile Industry Challenges in Port Development Impact of agro-based industries Fertilizer Industry on cropping pattern Sagarmala Project Agro-based Industries Tourism: Prospects and Impact Air Transport on Environment Other Industries **National Airways** TRANSPORT AND **Industrial Regions and its** COMMUNICATION **National Civil Aviation Policy** Characteristics **Land Transport** Regional Connectivity Scheme Major Industrial Regions of the (UDAN) World Roads International Airways Industrial Regions of India Classification of roads Communications Industrial Policies and National Highway Grid Development

Communication Infrastructure

National Telecom Policy	Various Organisation Related to International Trade	Components of Population growth
Major Issues in Transport and Communication	Regional Trade Blocks	Demographic Dividend
Role of Transport in Regional	Foreign Trade: India	Demographic Window of
Development	Trends in India's Foreign Trade	Opportunity
Need for holistic transport planning to improve the city's	Composition Indian Trade	Components of Population change
mobility	Direction of India's Foreign Trade	Birth Rate
Carbon footprint of the transport sector		Death Rate (Mortality Rate)
Road Transport: Investment	Trade Pattern and Policies	Migration
Challenges	Changing Pattern of India's foreign trade	Factors responsible for
Inland Waterways: Development challenges and	Challenges and prospects of	migration
prospects	foreign trade of India	Type of Migration
Sea Ports	Impact of trade liberalisation on the geographical distribution of	Issues related to migration
Problem of Pot Development	industries	Migration pattern in world and India
Analysis of Sagarmala Project	Neo-liberal reforms in Africa: Race of India and China	World Migration Report, 2023
Environmental issues of maritime shipping	DEMOGRAPHY AND CENSUS	Population Composition
Role of Transport in Regional	WORLD & INDIA	Age Sex Pyramids & their
Development	Concept of human resources	significance
Eco Tourism: Way toward	Factors affecting the distribution of Population	Trends and Pattern in Sex Ratio
Responsible Tourism	Population growth	Initiatives to improve Sex ratio
Trade	Theories of Population Growth	Trends and Patterns in Literacy
World Trade Pattern	·	Government's Efforts
Major Oceanic Trade Routes	Malthusian Theory	Fertility Rate
Basis of Overseas Trade	Marxian Theory	Impact of Population Change
Types of International Trade	Demographic transition theory	Population Policies
Bilateral Trade	Optimum Population Theory	Need for revision of National
Multilateral Trade	Size, growth rate and distribution of population	Population Policy
		Population problems

Global Nutrition Report, 2023

Global Hunger Index

#### **HUMAN DEVELOPMENT**

Growth v/s Development

Approaches to Human Development

Human Development Index

International comparisons of Human Development

World Development Report, 2023

**Human Development Report** 

# MAIN FEATURES OF INDUSTRIAL DEVELOPMENT IN INDIA

Roles of private sector and public sector, Investment in the industrial sector, employment, productivity, profit etc.

Strategies for disinvestment and privatization

Role of Small, Medium and Micro enterprises, Government Policy, main problems, effects of globalization

**New Manufacturing Policy** 

Industrial disbursal and Industrial corridors

SEZs- Main issues like land use, relocation of same industries that exist, exports earnings vs loss of tax income

Industrial sickness, institutional mechanism to support the sick industries, exit policy issues

Main constraints in the industrial development of India

Effects of globalization on industries, Sub-prime crisis and sovereign debt crisis on Industry in India

Industrial Finance in India: Role of development banking, commercial banking, venture capital, angel capital in industrialization and promotion of entrepreneurship

Make in India achievements

## AGRICULTURAL REVOLUTIONS IN INDIA

**Green Revolution** 

White Revolution – Operation Flood

Yellow Revolution

Blue Revolution

Golden Fibre Revolution: Jute

These are the topics that will be covered in the three parts of GS geography as we cover.

Do note that Map items as per the topics will be also covered