

# TOPICS (Ancient India)

*This booklet consist of the following topics:*

- ❖ Pre-historic India
- ❖ Indus valley civilization
- ❖ Vedic age
- ❖ Jainism and buddhism
- ❖ The mahajanapadas
- ❖ Mauryan empire
- ❖ Post-mauryan india
- ❖ Sangam age
- ❖ Formation of new states in the peninsula
- ❖ The gupta period
- ❖ Harsha vardhana (606-647 a.d.)
- ❖ Glossary

## TOPICS (Bio-Geography)

*This booklet consist of the following topics:*

- ❖ Soil Characteristics
- ❖ Factors responsible for soil formation
- ❖ Stages of soil Formation
- ❖ Soil Forming Processes
- ❖ Soil Profiles and Horizons
- ❖ Soil Classification
- ❖ Soil Erosion and Conservation
- ❖ Major Biomes of the world
- ❖ Social Forestry
- ❖ Agro Forestry

# TOPICS (Biology - Part 1)

*This booklet consist of the following topics:*

- ❖ The living world discipline
- ❖ Cell & genetics
- ❖ World of plants
- ❖ Virus
- ❖ Bacteria
- ❖ Algae
- ❖ Fungi
- ❖ Diet & nutrition
- ❖ Digestive system
- ❖ Skeletal system
- ❖ Muscular system

## TOPICS (Biology - Part 2)

*This booklet consist of the following topics:*

- ❖ Respiratory system
- ❖ Transport system
- ❖ Nervous system
- ❖ Sensory organs
- ❖ Excretion & osmoregulation
- ❖ Endocrine system
- ❖ Reproductive system
- ❖ Human diseases
- ❖ Food & water
- ❖ Water purification
- ❖ Application of biology

# TOPICS (Climatology)

*This booklet consist of the following topics:*

- ❖ Atmosphere
- ❖ Inversion of Temperature
- ❖ Isanomalous temperature
- ❖ Insolation and Temperature
- ❖ Laws of Atmospheric Circulation
- ❖ The Tricellular Meridional Circulation
- ❖ Planetary Winds
- ❖ Local Winds
- ❖ Monsoons
- ❖ Jet Stream
- ❖ Air Masses
- ❖ Fronts
- ❖ Temperate Cyclone
- ❖ Tropical Cyclone
- ❖ Types and Distribution of precipitation
- ❖ Climatic Zones of the World
- ❖ Climate Change and Global warming

# TOPICS (Concepts & Issues)

*This booklet consist of the following topics:*

## Chapter 1: Ecology, an Introduction

- ❖ Levels of Organizations
- ❖ Difference Between Ecology, Environment and Ecosystem

## Chapter 2: Ecosystem

### ❖ The Structure of an Ecosystem

- Abiotic Components
  - Light
  - Temperature
  - Water
  - Atmospheric Gases
  - Wind
  - Soil (Edaphic Factors)
  - Physiographic Factors
- Biotic Components
  - Autotrophs
  - Heterotrophs
  - Decomposers

### ❖ Functions of Ecosystems

- Energy
- Primary Production
- Secondary Production
- Food Chain
- Food Web
- Trophic Levels
- Energy Flow
- Ecological Pyramids

- Biogeochemical Cycle

#### ❖ **Types of Ecosystems**

- Grassland Ecosystem
- Tropical Rain Forest Ecosystem
- Pond Ecosystem

#### ❖ **Changes in Ecosystems**

#### ❖ **Controlling Human Impact on Ecosystems**

- Ecosystem Conservation
- Ecology vs Economy
- Conservation Priorities
- International and National Agencies Involved

### **Chapter 3: Biogeochemical Cycles**

#### ❖ **Parts of a Biogeochemical Cycle**

#### ❖ **Types of Biogeochemical Cycles**

#### ❖ **Carbon Cycle**

- Parts of the Cycle

#### ❖ **Nitrogen Cycle**

- Parts of the Cycle
- Human Impact on Nitrogen Cycle

#### ❖ **Phosphorus Cycle**

- Parts of the Cycle
- Human Influence on Phosphorus Cycle

#### ❖ **Sulphur Cycle**

- Parts of the Cycle
- Human Impact on the Cycle

### **Chapter 4: Ecological Community**

#### ❖ **Characteristics of a Community**

#### ❖ **Ecotones**

- Biotic Aspects of the Ecotones
- Physical Factors behind the Creation of Ecotones

- Keystone Species

#### ❖ Ecological Niche

#### ❖ Ecological Succession

- Types of Succession
  - Autogenic Succession
  - Allogenic Succession
  - Induced Succession
  - Deflected Succession
  - Primary Succession
  - Secondary Succession
  - Autotrophic Succession
  - Heterotrophic Succession
  - Cyclic Succession
- Features of Succession
- The Process of Succession

#### ❖ Climax Community

- Some Well Known Examples

### Chapter 5: Population Ecology

- Characteristics of Population
  - Density
  - Natality
  - Mortality
  - Dispersal
  - Age Distribution

#### ❖ Population Growth

- Population Growth Curves
- Population Stabilization

### Chapter 6: Biomes

#### ❖ Major Biomes of The World

- Terrestrial Biomes



- Aquatic Biomes
- Tundra
- Taiga
- Temperate Coniferous Forests
- Temperate Broadleaf and Mixed Forests
- Temperate Grasslands, Savannas, and Shrublands
- Mediterranean Forests, Woodlands, and Shrub
- Tropical and Subtropical Coniferous Forests
- Tropical and Subtropical moist Broadleaf Forests
- Tropical and Subtropical dry Broadleaf Forests
- Tropical and Subtropical Grasslands, Savannas, and Shrublands
- Montane Grasslands and Shrublands
- Deserts and Shrublands
- Mangroves
- Flooded Grasslands and Savannas

❖ **Aquatic Biomes**

- Continental Shelf
- Littoral
- Riparian Zone
- Pond
- Coral Reef
- Kelp Forest
- Drift or Pack Ice
- Hydrothermal Vent
- Cold Seep
- Benthic Zone
- Pelagic Zone
- Neritic Zone

## Chapter 7: Biosphere

❖ **Extent of the Biosphere**

❖ **Components of the Biosphere**

## TOPICS (Environment-II)

*This booklet consist of the following topics:*

- ❖ Biodiversity
- ❖ Climate Change
- ❖ Deforestation
- ❖ Groundwater Depletion
- ❖ Impact of Agriculture on Environment
- ❖ Mining and its Impact on Environment
- ❖ Pollution
- ❖ Waste Management
- ❖ Water Resources & Related Issues
- ❖ Wetlands and Coastal Ecosystem Management
- ❖ Environment Impact Assessment
- ❖ Environmental Governance In India

# TOPICS (Geomorphology)

*This booklet consist of the following topics:*

- ❖ Origin and Evolution of the Earth's Crust
- ❖ Physical conditions of the Earth's interior
- ❖ Factors controlling landform development
- ❖ Basic geomorphological concepts
- ❖ Geosyncline and Mountain Building
- ❖ Vulcanicity
- ❖ Earthquakes
- ❖ Geomorphic process
- ❖ Landforms and their evolution
- ❖ Applied Geomorphology

# TOPICS (Governance)

*This booklet consist of the following topics:*

- ❖ Governance in India
- ❖ Citizen Charters
- ❖ E-governance
- ❖ Political Parties in India
- ❖ Electoral System in India
- ❖ Role of Civil Services in a Democracy
- ❖ The Central Secretariat
- ❖ Current Status and key Features of Decentralisation in India
- ❖ Institutions Involved in Bringing Transparency & Accountability in Governance

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- 2. Public Finance**
- 3. Monetary Management and Financial Intermediation**
- 4. External Sector**
- 5. Prices, Agriculture and Food Management**
- 6. Industrial, Corporate and Infrastructure Performance**
- 7. Services Sector**
- 8. Climate Change and Sustainable Development**
- 9. Social Infrastructure, Employment and Human Development**

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- 2. Rural Sector**
- 3. Social Sector Including Health Care**
- 4. Education, Skills and Job Creation**
- 5. Infrastructure and Investment**
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- 7. Governance and Ease of Doing Business**
- 8. Fiscal Discipline**
- 9. Tax Reforms**

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2. **The Chakravyuha Challenge of the Indian Economy**
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5. **Mother and Child**
6. **Bounties for the Well-off**
7. **Fiscal Capacity for the 21st Century**
8. **Preferential Trade Agreements**
9. **Reforming the Fertilizer Sector**
10. **Structural Changes in India's Labour Markets**
11. **Powering "One India"**

## TOPICS (Indian Culture)

*This booklet consist of the following topics:*

- ❖ Dance
- ❖ Music
- ❖ Musical Instruments
- ❖ Puppetry
- ❖ Drama/Theatre
- ❖ Architecture
- ❖ Indian Paintings
- ❖ Buddhism and Jainism
- ❖ Major Indian Religions
- ❖ Martial Arts of India
- ❖ Classical Languages
- ❖ Printing, Weaving and Embroidery Styles in India



# TOPICS (Indian Economy)

*This booklet consist of the following topics:*

- ❖ **Concept related to national income**
- ❖ **Banking**
- ❖ **Monetary policy**
- ❖ **Inflation**
- ❖ **Fiscal policy**
- ❖ **Financial markets**
- ❖ **Balance of payment**
- ❖ **Industry**
- ❖ **Agriculture**
- ❖ **Planning**
- ❖ **Poverty and unemployment**
- ❖ **Human development**

## **TOPICS (Indian Polity Part - 1)**

*This booklet consist of the following topics:*

- ❖ **Making of the Indian Constitution**
- ❖ **Sources of Indian Constitution**
- ❖ **Salient features of the Indian Constitution**
- ❖ **Parliamentary form of Government**
- ❖ **Federalism in India**
- ❖ **The Preamble**
- ❖ **Territory of the Union and Formation of States**
- ❖ **Citizenship**
- ❖ **Fundamental Rights**
- ❖ **Directive Principles of State Policy**
- ❖ **Fundamental Duties**

## TOPICS (Indian Polity Part - 2)

*This booklet consist of the following topics:*

- ❖ **The Union Executive**
- ❖ **The Union Legislature**
- ❖ **The State Executive**
- ❖ **The State Legislature**
- ❖ **Central State Relations**
- ❖ **Union Territories**
- ❖ **Special status of Jammu & Kashmir**

## **TOPICS (Indian Polity Part - 3)**

*This booklet consist of the following topics:*

- ❖ **The Judiciary**
- ❖ **Administrative Tribunal**
- ❖ **Panchayats and the Municipalities**
- ❖ **Scheduled & Tribal Areas**
- ❖ **Services Under the Union and the States**
- ❖ **Elections**
- ❖ **Special Provisions Relating to Certain Classes**
- ❖ **Official Language**
- ❖ **Emergency Provisions Under the Indian constitution**
- ❖ **Provisions related to the Amendment**

## TOPICS (Medieval India)

*This booklet consist of the following topics:*

- ❖ Major dynasties of north India (750-1200)
- ❖ South Indian kingdoms
- ❖ Early muslim invasions
- ❖ The delhi sultanate (1200-1400 ad)
- ❖ The delhi sultanat (economic, social & cultural life)
- ❖ Vijayanagar and Bahmani kingdoms
- ❖ Other regional states
- ❖ Mughal (Babur & Humayun) and Sur dynasty
- ❖ Mughal dynasty (Akbar onwards)
- ❖ Mughal administration, society and culture
- ❖ The maratha
- ❖ Religious development in medieval India
- ❖ Advent of europeans

## TOPICS (Modern History)

*This booklet consist of the following topics:*

- ❖ Indian states and society in 18th century
- ❖ Advent and growth of East India Company
- ❖ British expansion in India
- ❖ Second phase of British expansion in India
- ❖ Administration before 1857
- ❖ Economic policies of the Britishers
- ❖ Peasant and tribal movements
- ❖ The Revolt of 1857
- ❖ Introduction of English education
- ❖ Press under British rule
- ❖ Socio-religious reform movement
- ❖ Evolution and growth of Indian Nationalism
- ❖ Indian national congress
- ❖ Indian national Movement (1905-18)
- ❖ Indian National Movement (1918-29)
- ❖ Revolutionary nationalism
- ❖ Indian National Movement (1930-47)
- ❖ Governor Generals during British India
- ❖ Constitutional Development in India

# TOPICS (Oceanography)

*This booklet consist of the following topics:*

- ❖ Submarine Relief
- ❖ Temperature and Salinity of Oceans
- ❖ Ocean Deposits
- ❖ Marine resources
- ❖ Ocean Currents
- ❖ Ocean Tides
- ❖ Coral Reefs
- ❖ Sea level Changes
- ❖ Tsunami

## TOPICS (Rights in India)

*This booklet consist of the following topics:*

- ❖ Human rights in india
- ❖ Child rights
- ❖ Rights of women
- ❖ Rights of tribal's
- ❖ Rights of minorities
- ❖ Rights of the persons with disabilities
- ❖ Rights of senior citizen
- ❖ Rights of consumers



# TOPICS (Science & Technology)

*This booklet consist of the following topics:*

- ❖ Space
- ❖ IT & Computer
- ❖ Robotics
- ❖ Nanotechnology
- ❖ Defence
- ❖ Biotechnology

## TOPICS (The Great Northern Plains)

*This booklet consist of the following topics:*

- ❖ The great plain of north india
- ❖ Drainage system of the great northern plains
- ❖ Climate
- ❖ Soils
- ❖ Natural vegetation and wild life
- ❖ Natural hazard and disasters
- ❖ Environment
- ❖ Demography of the great northern plains
- ❖ Population composition
- ❖ Migration and settlements
- ❖ Regional development and planning
- ❖ Human development
- ❖ The economy of the great northern plains water resources and irrigation

- ❖ **Multipurpose project**
- ❖ **Biotic resources**
- ❖ **Land utilization and agriculture**
- ❖ **Crop combination of northern plains**
- ❖ **Green revolution**
- ❖ **Mineral resources**
- ❖ **Energy resources**
- ❖ **Manufacturing industries**
- ❖ **Transport and communication**
- ❖ **Tourism**

## **TOPICS (The Himalyan Region)**

*This booklet consist of the following topics:*

- ❖ **Indian geography**
- ❖ **Physiography**
- ❖ **The himalayan river systems**
- ❖ **Climate**
- ❖ **Natural vegetation and wildlife**
- ❖ **Soils**
- ❖ **Natural hazards and disasters**
- ❖ **Environment**
- ❖ **Demography of himalayan**
- ❖ **Human development in himalayan region**
- ❖ **Population composition**
- ❖ **Migration and settlements in himalayan region**
- ❖ **Planning and development of backward are was in himalayan region**

- ❖ **The economy of the himalaya region**
- ❖ **Multipurpose projects**
- ❖ **Biotic resources**
- ❖ **Land utilization and agriculture**
- ❖ **Mineral resources in himalayan region**
- ❖ **Energy resources in himalayas**
- ❖ **Manufacturing industries**
- ❖ **Transport and communication**
- ❖ **Tourism**

# TOPICS

## (The Peninsular India, Coastal Plains & Islands)

*This booklet consist of the following topics:*

- ❖ The peninsular india, coastal plains & island
- ❖ Drainage system of kninsular india
- ❖ Climate of peninsular india
- ❖ Natural vegetation and wildlife
- ❖ Soils
- ❖ Natural hazards and disasters.
- ❖ Environment
- ❖ Demography of peninsular india
- ❖ Population composition
- ❖ Migration and settlements in peninsular india
- ❖ Human development in peninsular india
- ❖ The economy of peninsular india water resources and irrigation
- ❖ Multipurpose projects

- ❖ **Biotic and marine resources**
- ❖ **Land utilization and agriculture**
- ❖ **Major crops**
- ❖ **Mineral resources**
- ❖ **Energy resources**
- ❖ **Manufacturing industries**
- ❖ **Transport and communication**