

# GS SCORE

An Institute for Civil Services

# UPSC SYLLABUS EXPLAINED

MICRO TOPICS LISTING  
**PRE *cum* MAINS**

UPDATED  
*for*  
**IAS 2024-25**

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| Website: <https://iasscore.in/>

# GS SCORE

An Institute for Civil Services

# SUCCESS IS A PRACTICE WE DO!



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ANURAG PATHAK



PRAVEEN KUMAR



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SOURABH MISHRA



SMRITI RAO



ABHISHIEKH SAXENA



VIRAJ C. RANE

## THE MOST EXPERIENCED & SEASONED SUBJECT EXPERT

# HISTORY

## ANCIENT HISTORY

### □ Pre Historic Cultures in India

- Sources of Pre History
- Periodization of Indian Pre History
- Stone Age
- Palaeolithic (2 million BC – 10,000 BC)
- Mesolithic (10,000 BC – 8,000 BC)
- Neolithic (8000 BC – 4000 BC)
- Chalcolithic Age (4000 BC – 1500 BC)
- Iron Age (1500 BC-200 BC)
- Impact of Iron

### □ Pastoral & Farming Communities

- Neolithic Phase
- Chalcolithic Phase
- Early Iron Phase
- Geographical Distribution and Characteristics

### □ Indus Valley Civilization

- Harappan civilisation or Indus Valley Civilisation
- Major Cities Town Planning
- Harappan Internal & Foreign Trade
- Agriculture
- Domestication of animals
- Crafts
- Weights and Measures
- Script and Language
- Harappan Society
- Harappan Religion
- Harappan Economy
- Harappan Burial System

- Harappan Art & Architecture
- Decline of Harappan Culture

### □ Vedic Society

- Original Home of Aryans
- Features of Aryan Culture
- Vedic Texts & Upanishad
- Sources for Reconstructing Vedic Society and Culture
- Geography of the Rig Vedic Period & Geography of the later Vedic Phases
- Economic Conditions
- Political Organisation and Evolution of Monarchy
- Social Organisation and Varna System
- Religion and Thought

### □ Pre Mauryan-Period

- Age of 2nd Urbanisation
- Formation of states
- The Sixteen Mahajanapadas
- Gana Sangha or Republics
- Rise of urban centres
- Evolution of Coins
- Haryanka dynasty
- Shishunaga dynasty
- Nanda dynasty

### □ Growth of Janism & Buddhism

- Jainism
- Buddhism

### □ The Mauryan Empire

- Chandragupta and Bindusara
- The Arthashastra
- Megasthenes
- Ashoka and His Successors
- Ashoka's Inscriptions and Sites
- Ashoka's Dhamma
- Mauryan Administration, Economy, Society and Art
- Decline of Maurya

### □ Post-Mauryan India (BC 200-AD 300)

- Arrival of Indo-Greeks, Shakas, Parthians & Kushana
- Commercial Contacts with the Outside World
- Satavahanas and Other Indigenous Dynasties
- Society: Evolution of Jatis
- Sangam Texts-and Society
- Schools of Art: Gandhara; Mathura ; Amravati

### □ Imperial Guptas

- Sources of Gupta Rule
- Political history of Guptas
- Fa-hien Arrival
- Gupta Administration
- Development of Art & Culture
- Gupta Empire: Period of Golden Age
- Economic Conditions
- Urban centres in Gupta period

### □ Harshavardana

- Sources for Harsha's Period
- Early life of Harsha
- Harsha's Administration
- Important Officials of the empire
- Economy under Harsha
- Huen Tsang Arrival
- Society
- Religion

### □ India's Contacts with Rest of Asia

- Propagation of Buddhism abroad
- India's contacts with Roman empire
- Trade and Chinese silk route
- Reign of Kanishka
- Spread of Indian culture to SE Asia

### □ Sangam Period (South Indian Dynasties)

- Sangam Literature
- South Indian Dynasties
  - Cholas
  - Cheras
  - Pandyas
- Sangam Polity, Society and Culture
- Economy of Sangam Period
- Foreign Dynasties
- Commercial Contacts with the Outside World
- Schools of Art

## MEDIEVAL HISTORY

### □ Major Dynasties (750-1200) of Early Medieval India

- The Pratiharas (8th to 10th Century)
- The Palas (8th to 11th Century)
- The Tripartite Conflict
- The Senas (11th to 12th Century)
- The Rajaputas

- Pallavas
- Chalukyas
- Rashtrakutas
- Indian Feudalism
- Administration
- Society and Culture
- Economy and the decline of Trade

☐ **Cholas and Other South Indian Kingdoms**

- Chola Rulers and Political History
- Chola Administration
- Socio-Economic Life
- Education and Literature
- The Cheras (9th to 12th Century)
- The Yadavas (12th to 13th Century)
- Contact with South-East Asia

☐ **Early Muslim Invasions**

- The Arab Conquest of Sindh
- Mahmud of Ghazni
- Muhammad Ghori

☐ **The Delhi Sultanate (1206-1526 AD)**

- Slave Dynasty
- Khalji Dynasty (1290-1320 AD)
- Tughlaq Dynasty (1320-1414 AD)
- Provincial Kingdoms and Resistance by Indian Chiefs
- Sayyid Dynasty
- Lodi Dynasty
- Attacks by Mongols and other Turks
- Administration
- Economy
- Urbanization
- Society and Culture
- Scientific Knowledge and legal System
- Challenges leading to the decline of the Sultanate

☐ **Vijayanagar Empire**

- Sources
- Political History
- Administration
- Social and Cultural Life
- Economic Condition
- Conflicts with the Bahmani Kingdom

☐ **Central Asian Politics and the Advance of Babur towards India**

- The Timurids
- The Timurid-Uzbek
- Uzbek-Iran Conflict and Babur
- Babur's Advance towards India

☐ **Struggle for Empire in North-India (Afghans, Rajputs and Mughals)**

- Struggle between Ibrahim Lodi and Babur, the Battle of Panipat
- Babur's problems after the Battle of Panipat
- Struggle with Rana Sanga
- Problems of the Eastern Areas and the Afghans
- Babur's Contribution and Significance of his Advent into India

☐ **Struggle for Empire in North India**

- Humayun and the Afghans
- Early Activities of Humayun, and the Tussle with Bahadur Shah
- The Gujarat Campaign
- The Bengal Campaign, and Struggle with Sher Khan

☐ **The Establishment of the North Indian Empire**

- The Surs dynasty
- Sher Shah's Early Life
- Social and Political Background of Bihar and the Rise of Sher Shah to Power.
- The Sur Empire (1540-56)
- Contributions of Sher Shah

☐ **Consolidation and Expansion of the Empire - Akbar**

- Conflict with the Afghans - Hemu
- Struggle with the Nobility
- Regency; Revolt of Uzbek Nobles
- Early Expansion of the Empire (1560-76) - Malwa, Garh-Katanga, Rajasthan, Gujarat, Eastern India

<ul style="list-style-type: none"> <li>• Relations with the Rajputs - Growth of a Composite Ruling Class <input type="checkbox"/></li> <li>• Rebellions, and Further Expansion of the Empire in the North West <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>□ <b>Foreign Policy of the Mughals</b> <ul style="list-style-type: none"> <li>• Akbar and the Uzbeks <input type="checkbox"/></li> <li>• The Question of Qandahar and Relations with Iran <input type="checkbox"/></li> <li>• Shah Jahan's Balkh Campaign <input type="checkbox"/></li> <li>• Mughal - Persian Relations -the Last Phase <input type="checkbox"/></li> </ul> </li> </ul>
<p>□ <b>State and Government under Akbar</b></p> <ul style="list-style-type: none"> <li>• Akbar's Concept of Suzerainty <input type="checkbox"/></li> <li>• Structure of Government, Central and Provincial - the Vikalat, the Central Ministries, Provincial Ministries <input type="checkbox"/></li> <li>• Government, District and Local Government <input type="checkbox"/></li> <li>• The Working of Government - the Ruler, Land-Revenue System, the Dahsala System, the Mansabdari <input type="checkbox"/></li> <li>• System and the Army <input type="checkbox"/></li> </ul>	<p>□ <b>India in the First Half of the Seventeenth Century</b></p> <ul style="list-style-type: none"> <li>• Jahangir's Accession - his Early Difficulties <input type="checkbox"/></li> <li>• Territorial Consolidation and Expansion of the Empire - Mewar, East India and Kangra <input type="checkbox"/></li> <li>• Nur Jahan, and the Nur Jahan 'Junta' <input type="checkbox"/></li> <li>• The Rebellions of Shah Jahan, and the coup de main of Mahabat Khan <input type="checkbox"/></li> <li>• Jahangir as a Ruler <input type="checkbox"/></li> <li>• State and Religion in the First Half of the Seventeenth Century <input type="checkbox"/></li> <li>• Shah Jahan - Consolidation and Expansion of the Empire <input type="checkbox"/></li> <li>• Evolution of the Mughal Ruling Class and the Mansabdari System <input type="checkbox"/></li> </ul>
<p>□ <b>Akbar's Religious Views</b></p> <ul style="list-style-type: none"> <li>• Relations with the Ulama and Social Reforms <input type="checkbox"/></li> <li>• The Early Phase (1556-73) <input type="checkbox"/></li> <li>• The Second Phase (1573-80) - the Ibadat Khana <input type="checkbox"/></li> <li>• Debates - the Mahzar - Breach with Orthodox <input type="checkbox"/></li> <li>• Ulama - Re-organisation of Madadd-i-Maash Grants <input type="checkbox"/></li> <li>• Third or Final Phase - Din-i-Ilahi - State <input type="checkbox"/></li> <li>• Policies &amp; Religious Toleration <input type="checkbox"/></li> </ul>	<p>□ <b>Aurangzeb - Religious Policies, North India and the Rajputs</b></p> <ul style="list-style-type: none"> <li>• War of Succession <input type="checkbox"/></li> <li>• Religious Policy: First Phase (1658-79) <input type="checkbox"/></li> <li>• Reforms and Puritanical Measures <input type="checkbox"/></li> <li>• Temples, Jizyah; Second Phase (1679-1707) <input type="checkbox"/></li> <li>• Territorial Consolidation and Expansion of Empire - North India <input type="checkbox"/></li> <li>• Popular Revolts - Jats, Satnamis, Afghans and Sikhs <input type="checkbox"/></li> <li>• Breach with Marwar and Mewar <input type="checkbox"/></li> </ul>
<p>□ <b>The Deccan and the Mughals (Upto 1657)</b></p> <ul style="list-style-type: none"> <li>• The Deccani States upto 1595 <input type="checkbox"/></li> <li>• Mughal Advance towards the Deccan <input type="checkbox"/></li> <li>• Mughal Conquest of Berar, Khandesh and Parts of Ahmadnagar <input type="checkbox"/></li> <li>• Rise of Malik Ambar, and Frustration of Mughal Attempt at Consolidation (1601-27) <input type="checkbox"/></li> <li>• Extinction of Ahmadnagar, Acceptance of Mughal <input type="checkbox"/></li> <li>• Suzerainty by Bijapur and Golconda <input type="checkbox"/></li> <li>• Shah Jahan and the Deccan (1636-57) <input type="checkbox"/></li> <li>• Cultural Contribution of the Deccani States <input type="checkbox"/></li> </ul>	<p>□ <b>Climax and Crisis of the Mughal Empire the Marathas and the Deccan</b></p> <ul style="list-style-type: none"> <li>• Rise of the Marathas - Early reign of Shivaji <input type="checkbox"/></li> <li>• Treaty of Purandar - the Agra Visit <input type="checkbox"/></li> <li>• Shivaji's Swarajya - Administration and Achievements <input type="checkbox"/></li> </ul>

<ul style="list-style-type: none"> <li>• Aurangzeb and the Deccani States (1658-87) <input type="checkbox"/></li> <li>• Marathas and the Deccan (1687-1707) <input type="checkbox"/></li> <li>• Assessment of Aurangzeb and the Jagirdari Crisis <input type="checkbox"/></li> <li>□ <b>Society-Structure and Growth</b> <ul style="list-style-type: none"> <li>• Rural Society <input type="checkbox"/></li> <li>• Towns and Town Life <input type="checkbox"/></li> <li>• Artisans and Master-Craftsmen <input type="checkbox"/></li> <li>• Women <input type="checkbox"/></li> <li>• Servants and Slaves <input type="checkbox"/></li> <li>• Standard of Living <input type="checkbox"/></li> <li>• The Ruling Classes - Nobility, Rural Gentry <input type="checkbox"/></li> <li>• The Middle Strata <input type="checkbox"/></li> <li>• The Commercial Classes <input type="checkbox"/></li> </ul> </li> <li>□ <b>Economic Life-Patterns and Prospects</b> <ul style="list-style-type: none"> <li>• Inland Trade <input type="checkbox"/></li> <li>• Overseas Trade - Role of Foreign Trading <input type="checkbox"/></li> <li>• Companies - Position of Indian Merchants over-Land Trade <input type="checkbox"/></li> <li>• The Mughal State and Commerce <input type="checkbox"/></li> <li>• Trend of India's Economy and Prospects during the First Half of the Eighteenth Century <input type="checkbox"/></li> </ul> </li> <li>□ <b>Religion, Fine Arts, Science and Technology</b></li> </ul>	<ul style="list-style-type: none"> <li>• Religion- Hindu Religion, Sikh Religion, Islam <input type="checkbox"/></li> <li>• Fine Arts - Architecture, Painting, Language and Literature, Music <input type="checkbox"/></li> <li>• Science and Technology <input type="checkbox"/></li> <li>□ <b>Northern India in the First Half of the Eighteenth Century</b> <ul style="list-style-type: none"> <li>• Bahadur Shah I, and the Beginning of the Struggle <input type="checkbox"/></li> <li>• For Wizarat - Rajput Affairs -Marathas and the Deccan - Accentuation of the Party Struggle <input type="checkbox"/></li> <li>• Struggle for 'New' Wizarat: Zulfiqar Khan and Jahandar Shah (1712-13) <input type="checkbox"/></li> <li>• The Sayyid Brothers' Struggle for 'New' Wizarat <input type="checkbox"/></li> <li>• The Sayyid 'New' Wizarat <input type="checkbox"/></li> <li>• The Wizarat of M. Amin Khan and Nizam-ul-Mulk <input type="checkbox"/></li> <li>• Rise of Regional States, Beginning of Foreign Invasions of India (1725-48) <input type="checkbox"/></li> </ul> </li> <li>□ <b>The Maratha Bid for Supremacy</b> <ul style="list-style-type: none"> <li>• The Marathas and their Policy of Expansion <input type="checkbox"/></li> <li>• The Marathas and Nizam-ul-Mulk <input type="checkbox"/></li> <li>• The Maratha Advance into Gujarat and Malwa <input type="checkbox"/></li> <li>• The Maratha Advance into Doab and Punjab <input type="checkbox"/></li> <li>• First Phase (1741-52); Second Phase (1752-61); <input type="checkbox"/></li> <li>• Third Battle of Panipat <input type="checkbox"/></li> </ul> </li> </ul>
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**MODERN HISTORY**

<ul style="list-style-type: none"> <li>□ <b>Scenario before 1857</b> <ul style="list-style-type: none"> <li>• Later Mughals &amp; their Decline <input type="checkbox"/></li> <li>• Regional powers in 18th Century <input type="checkbox"/></li> <li>• Advent of Europeans in India <input type="checkbox"/></li> <li>• The British conquest of India <input type="checkbox"/></li> <li>• Carnatic Wars <input type="checkbox"/></li> <li>• Battle of Plassey &amp; Buxar <input type="checkbox"/></li> <li>• Anglo-Mysore War <input type="checkbox"/></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Anglo Punjab War <input type="checkbox"/></li> <li>• British Administration before 1857 <input type="checkbox"/></li> <li>• British Economic Policy <input type="checkbox"/></li> <li>□ <b>Revolt of 1857</b> <ul style="list-style-type: none"> <li>• Causes for revolt of 1857 <input type="checkbox"/></li> <li>• Leaders of revolt of 1857 <input type="checkbox"/></li> <li>• Suppression of revolt of 1857 <input type="checkbox"/></li> <li>• Nature of revolt of 1857 <input type="checkbox"/></li> </ul> </li> </ul>
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<ul style="list-style-type: none"> <li>Consequences of Revolt of 1857 <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>2<sup>nd</sup> World War and Nationalist response <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li><b>□ Early Nationalism</b></li> <li>Indian National Movement (1858-1905) <input type="checkbox"/></li> <li>Early Nationalists and Swadeshi Movement <input type="checkbox"/></li> <li>Government of India Act 1909 <input type="checkbox"/></li> <li>Home rule league movement <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li><b>□ Partition of India</b></li> <li>Rise of Communalism <input type="checkbox"/></li> <li>Wavell Plan <input type="checkbox"/></li> <li>Cabinet Mission Plan <input type="checkbox"/></li> <li>Mountbatten Plan <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li><b>□ The struggle for Swaraj</b></li> <li>Montague's statement – Aug 1917 <input type="checkbox"/></li> <li>Emergence of Gandhi – as a mass leader <input type="checkbox"/></li> <li>Khilafat &amp; Non-Cooperation Movement (NCM) <input type="checkbox"/></li> <li>Swaraj Party <input type="checkbox"/></li> <li>Revolutionary Terrorism Phase II (1920's) <input type="checkbox"/></li> <li>Simon Commission and Nehru Report <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li><b>□ During the freedom struggle</b></li> <li>Indian Renaissance/Socio-Religious Movement <input type="checkbox"/></li> <li>Civil Rebellions during British <input type="checkbox"/></li> <li>Tribal Movements during British Period <input type="checkbox"/></li> <li>Peasant's Movement during British Period <input type="checkbox"/></li> <li>Working Class Movement (1850-1900) <input type="checkbox"/></li> <li>Growth of communalism <input type="checkbox"/></li> <li>Left and Communist trends in National Movement <input type="checkbox"/></li> <li>Press and Education during British Period <input type="checkbox"/></li> <li>Role of Women in Freedom Struggle <input type="checkbox"/></li> <li>Governor Generals of India <input type="checkbox"/></li> <li>Viceroy of India <input type="checkbox"/></li> <li>Important Persons <input type="checkbox"/></li> <li>Important Newspaper/Journals <input type="checkbox"/></li> <li>Congress Sessions <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li><b>□ Intimation of freedom</b></li> <li>Civil Disobedience Movement <input type="checkbox"/></li> <li>Round Table Conference <input type="checkbox"/></li> <li>Poona Pact <input type="checkbox"/></li> <li>Government of India Act 1935 <input type="checkbox"/></li> <li>Tripuri Session – 1939 <input type="checkbox"/></li> <li>August Offer <input type="checkbox"/></li> <li>Individual Satyagraha 1940-41 <input type="checkbox"/></li> </ul>	
<ul style="list-style-type: none"> <li><b>□ Towards Achievement of Freedom</b></li> <li>Popular struggles in the princely states <input type="checkbox"/></li> </ul>	

## POST INDEPENDENCE CONSOLIDATION

<ul style="list-style-type: none"> <li><b>□ Re-organisation of states</b></li> <li>Constitutional provisions related to State formation <input type="checkbox"/></li> <li>Factors that lead to the merger of States <input type="checkbox"/></li> <li>Accession of the princely states <input type="checkbox"/></li> <li>Accession of States under France and Portuguese <input type="checkbox"/></li> <li>Accession of Sikkim <input type="checkbox"/></li> <li>Rehabilitation of the Refugees <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>Federal crisis <input type="checkbox"/></li> <li>Regional aspirations, insurgencies and areas of tension <input type="checkbox"/></li> <li>Accommodation and national integration <input type="checkbox"/></li> </ul>
	<ul style="list-style-type: none"> <li><b>□ Linguistic Regionalism in India</b></li> <li>Constitutional position and language policy <input type="checkbox"/></li> <li>Language and regionalism <input type="checkbox"/></li> </ul>

<ul style="list-style-type: none"> <li>• Recent controversy due to rise of Hindi language <input type="checkbox"/></li> <li>□ <b>Tribal Issue and Policy Consolidation</b> <ul style="list-style-type: none"> <li>• Tribal Issues &amp; Present Status <input type="checkbox"/></li> <li>• Tribal Policy consolidation <input type="checkbox"/></li> </ul> </li> <li>□ <b>Problem of Caste and Social Consolidation</b> <ul style="list-style-type: none"> <li>• Caste practices in India <input type="checkbox"/></li> <li>• Ambedkar Movement <input type="checkbox"/></li> <li>• Constitutional provisions <input type="checkbox"/></li> <li>• Recent government initiatives for emancipation of Scheduled Castes <input type="checkbox"/></li> <li>• Issues of Manual Scavenging <input type="checkbox"/></li> </ul> </li> <li>□ <b>Communalism &amp; Social Consolidation</b> <ul style="list-style-type: none"> <li>• Secularism <input type="checkbox"/></li> <li>• Causes of Communalism in India <input type="checkbox"/></li> <li>• Consequences of the communalism and social consolidation <input type="checkbox"/></li> </ul> </li> <li>□ <b>Issue of Linguistic Minorities</b> <ul style="list-style-type: none"> <li>• Operational Inefficiency <input type="checkbox"/></li> <li>• Government initiatives <input type="checkbox"/></li> </ul> </li> <li>□ <b>Overview of Economic Development Since Independence</b> <ul style="list-style-type: none"> <li>• Planning in India <input type="checkbox"/></li> </ul> </li> <li>□ <b>Agriculture</b> <ul style="list-style-type: none"> <li>• Journey through Five Year Plans <input type="checkbox"/></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Land Reforms <input type="checkbox"/></li> <li>• Post Green Revolution Agricultural <input type="checkbox"/></li> <li>• Issues <input type="checkbox"/></li> <li>• Agrarian Movements <input type="checkbox"/></li> <li>• Achievements in Agriculture since Independence <input type="checkbox"/></li> <li>• Recent Challenges <input type="checkbox"/></li> <li>□ <b>Industry</b> <ul style="list-style-type: none"> <li>• Industrial development since independence <input type="checkbox"/></li> <li>• Public sector since independence <input type="checkbox"/></li> <li>• Sectoral Development <input type="checkbox"/></li> <li>• Private Sector since Independence <input type="checkbox"/></li> <li>• Industrial Policy since Independence <input type="checkbox"/></li> <li>• Make in India <input type="checkbox"/></li> </ul> </li> <li>□ <b>New Economic Policy</b> <ul style="list-style-type: none"> <li>• Impact of New Economic Policy <input type="checkbox"/></li> </ul> </li> <li>□ <b>Post-Independence Policy of Science and Technology</b> <ul style="list-style-type: none"> <li>• India's Policy in the Field of Science and Technology <input type="checkbox"/></li> <li>• Institutional Framework for Science and Technology Development <input type="checkbox"/></li> <li>• Science and Technology in Pre- Reform Period <input type="checkbox"/></li> <li>• Impact of Economic Reform on the Science and Technology in India <input type="checkbox"/></li> <li>• New Policy Initiatives in the S&amp;T <input type="checkbox"/></li> <li>• Agenda of the Skill Training <input type="checkbox"/></li> </ul> </li> </ul>
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**WORLD HISTORY**

<ul style="list-style-type: none"> <li>□ <b>Beginning of Modern Age</b> <ul style="list-style-type: none"> <li>• Disintegration of the Feudal System <input type="checkbox"/></li> <li>• Renaissance <input type="checkbox"/></li> <li>• Humanism <input type="checkbox"/></li> <li>• Art and Architecture <input type="checkbox"/></li> <li>• Literature <input type="checkbox"/></li> <li>• Science <input type="checkbox"/></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Reformation <input type="checkbox"/></li> <li>• Explorations, Discovery, Trade <input type="checkbox"/></li> <li>• Colonization – Rise of Nation State <input type="checkbox"/></li> <li>• The English Revolution <input type="checkbox"/></li> <li>□ <b>French Revolution</b> <ul style="list-style-type: none"> <li>• Causes <input type="checkbox"/></li> <li>• The revolution in France <input type="checkbox"/></li> </ul> </li> </ul>
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<ul style="list-style-type: none"> <li>• France under Napoleon <input type="checkbox"/></li> <li>• Impact of revolution <input type="checkbox"/></li> <li>• Significance of revolution <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>• Aftermath of the war <input type="checkbox"/></li> <li>• Post-Lenin Russia <input type="checkbox"/></li> </ul>
<p>□ <b>Nationalism in Europe</b></p> <ul style="list-style-type: none"> <li>• Rise of the nation-state system <input type="checkbox"/></li> <li>• Unification of Italy <input type="checkbox"/></li> <li>• Unification of Germany <input type="checkbox"/></li> </ul>	<p>□ <b>Inter-War Years (1919 To 1939)</b></p> <ul style="list-style-type: none"> <li>• The Great Depression- an economic perspective <input type="checkbox"/></li> <li>• Rise of Fascism in Italy <input type="checkbox"/></li> <li>• Rise of Nazism in Germany <input type="checkbox"/></li> <li>• Soviet Union (USSR) <input type="checkbox"/></li> </ul>
<p>□ <b>Colonialism and Imperialism</b></p> <ul style="list-style-type: none"> <li>• Colonialism <input type="checkbox"/></li> <li>• The age of Imperialism (1870-1914) <input type="checkbox"/></li> <li>• Imperialism in Asia <input type="checkbox"/></li> <li>• Analysis of Colonialism <input type="checkbox"/></li> </ul>	<p>□ <b>World War-II</b></p> <ul style="list-style-type: none"> <li>• Foundations of the war <input type="checkbox"/></li> <li>• Course of the war <input type="checkbox"/></li> <li>• Aftermath of war <input type="checkbox"/></li> <li>• Analysis of the war <input type="checkbox"/></li> <li>• Decolonization phase <input type="checkbox"/></li> </ul>
<p>□ <b>Emergence of USA</b></p> <ul style="list-style-type: none"> <li>• Foundation of American Colonies <input type="checkbox"/></li> <li>• The Independence of United States of America <input type="checkbox"/></li> <li>• The American Revolutionary War <input type="checkbox"/></li> <li>• What was the impact of American Revolution? <input type="checkbox"/></li> <li>• Political Effects of the Revolution <input type="checkbox"/></li> <li>• How did the American Revolution influence the French Revolution? <input type="checkbox"/></li> <li>• US Civil War <input type="checkbox"/></li> <li>• Impact of Civil War on USA <input type="checkbox"/></li> <li>• Global Impact of US Civil War <input type="checkbox"/></li> <li>• Impact on India <input type="checkbox"/></li> </ul>	<p>□ <b>Development In Middle East</b></p> <ul style="list-style-type: none"> <li>• Democratic reforms in Middle East <input type="checkbox"/></li> <li>• Arab nationalism <input type="checkbox"/></li> <li>• Israel <input type="checkbox"/></li> </ul>
<p>□ <b>World War-I</b></p> <ul style="list-style-type: none"> <li>• Major causes of the war <input type="checkbox"/></li> <li>• Course of the war <input type="checkbox"/></li> <li>• Analysis of major events of the war <input type="checkbox"/></li> <li>• Consequences of World War I <input type="checkbox"/></li> <li>• Aftermath of World War I <input type="checkbox"/></li> <li>• League of Nations <input type="checkbox"/></li> </ul>	<p>□ <b>Cold War</b></p> <ul style="list-style-type: none"> <li>• Reasons <input type="checkbox"/></li> <li>• Development of Cold War (1945-1953) <input type="checkbox"/></li> <li>• To what extent was there a thaw after 1953? <input type="checkbox"/></li> <li>• Nuclear Arms Race and the Cuban Missile Crisis (1962) <input type="checkbox"/></li> </ul>
<p>□ <b>Russian Revolution</b></p> <ul style="list-style-type: none"> <li>• Major events in pre-revolution Russia <input type="checkbox"/></li> <li>• Causes <input type="checkbox"/></li> <li>• Course of revolution <input type="checkbox"/></li> <li>• Consequences <input type="checkbox"/></li> </ul>	<p>□ <b>Post Cold-War World</b></p> <ul style="list-style-type: none"> <li>• Global issues since 1991 <input type="checkbox"/></li> <li>• Integration of Europe <input type="checkbox"/></li> <li>• European integration—a timeline <input type="checkbox"/></li> <li>• Rise of global Islamic terrorism <input type="checkbox"/></li> <li>• Rise of China <input type="checkbox"/></li> </ul>
	<p>□ <b>Communism, Socialism and Capitalism</b></p> <ul style="list-style-type: none"> <li>• Capitalism (concept, types and example) <input type="checkbox"/></li> <li>• Communism (concept, types, example) <input type="checkbox"/></li> <li>• Relevance of capitalism in present era <input type="checkbox"/></li> <li>• Socialism <input type="checkbox"/></li> </ul>

## INDIAN CULTURE

□ **Sculptural Art in India**

- Sculptures of Harappan Civilisation
- Sculptures of Mauryan Age
- Post-Mauryan Period Sculptures
- Jain Sculptures
- Buddhist Sculpture
- Gupta Sculpture
- Medieval School of Sculpture
- Modern Indian Sculpture

□ **Architecture in Ancient India**

- Harappan Period Architecture
- Mauryan Architecture
- Post-Mauryan Period & Gupta Period Architecture
- Temples of Khajuraho
- Temples of Odisha
- Temples of Gwalior
- Temples of Gujarat
- Temples of Rajasthan
- Temples of Bengal
- Temples of Assam
- Temples of Himachal Pradesh
- Temples of Jammu and Kashmir
- Pallava Period Architecture
- Chola Period Architecture
- Pandya Temples
- Vijaynagar Period Architecture
- Nayaka Temples
- Temples of Kerala
- Vesara Style Temple
- Hoysala Style
- Rashtrakuta Period Architecture

□ **Indo-Islamic Architecture**

- Imperial Style Delhi Sultanate
- Provincial Style
- Mughal Style
- Sikh Style of Architecture

- Rajput Architecture

□ **Modern Architecture**

- European Influence
- Indo-Saracenic Architecture
- Post-Independence Period

□ **Indian Paintings**

- Tradition of Mural Paintings in India
- Tradition of Miniature Paintings in India
- Paintings in the Deccan
- Rajput School of Painting
- Pahari School of Painting
- Miniature Painting in South India
- Regional Paintings
- Modern Paintings
- Contemporary Paintings

□ **Pottery Tradition in India**

- Ochre Coloured Pottery (OCP)
- Black and Red Ware (BRW)
- Painted Grey Ware (PGW)
- Northern Black Polished Ware (NBPW)
- Glazed and Unglazed Pottery

□ **Music in India**

- Main Pillars of Indian Music
- Forms of Indian Music
- Musical Instruments
- Institutions Related to Music

□ **Dances in India**

- Concept of Dance in India
- Concept of Ashta Nayika
- Eight Classical Dance Forms in India
- Folk Dances
- Modern Dances

□ **Martial Arts in India**

- Genesis of Martial Arts

• Forms of Traditional Martial Arts	<input type="checkbox"/>	• Sufism	<input type="checkbox"/>
<b>□ Indian Theatre</b>		<b>□ Languages &amp; Literature in India</b>	
• Classical Sanskrit Theatre	<input type="checkbox"/>	• Sanskrit Literature	<input type="checkbox"/>
• Regional Theatre	<input type="checkbox"/>	• Pali Literature	<input type="checkbox"/>
• Modern Theatre	<input type="checkbox"/>	• Prakrit Literature	<input type="checkbox"/>
• Renaissance of Indian Theatre	<input type="checkbox"/>	• Tamil Literature	<input type="checkbox"/>
<b>□ Indian Puppetry</b>		• Telugu Literature	<input type="checkbox"/>
• String Puppets	<input type="checkbox"/>	• Malayalam Literature	<input type="checkbox"/>
• Shadow Puppets	<input type="checkbox"/>	• Kannada Literature	<input type="checkbox"/>
• Rod Puppets	<input type="checkbox"/>	• Odia Literature	<input type="checkbox"/>
• Glove puppets	<input type="checkbox"/>	• Assamese Literature	<input type="checkbox"/>
• Modern Puppetry	<input type="checkbox"/>	• Bengali Literature	<input type="checkbox"/>
• Tribal Puppetry	<input type="checkbox"/>	• Gujarati Literature	<input type="checkbox"/>
<b>□ Indian Cinema</b>		• Rajasthani Literature	<input type="checkbox"/>
• Cinema in India	<input type="checkbox"/>	• Punjabi Literature	<input type="checkbox"/>
• History of Indian Cinema	<input type="checkbox"/>	• Marathi Literature	<input type="checkbox"/>
• Classification of Indian Cinema Film	<input type="checkbox"/>	• Hindi Literature	<input type="checkbox"/>
<b>□ Religions in India</b>		• Persian Literature	<input type="checkbox"/>
• Pre-Vedic Religion	<input type="checkbox"/>	• Urdu Literature	<input type="checkbox"/>
• Hinduism	<input type="checkbox"/>	<b>□ Miscellaneous Topics</b>	
• Buddhism	<input type="checkbox"/>	• Indian Handicrafts	<input type="checkbox"/>
• Jainism	<input type="checkbox"/>	• Indian Universities	<input type="checkbox"/>
• Sikhism	<input type="checkbox"/>	• Personalities Related to Culture	<input type="checkbox"/>
• Islam	<input type="checkbox"/>	• Places of Cultural Interest	<input type="checkbox"/>
• Christianity	<input type="checkbox"/>	• Fairs and Festivals in India	<input type="checkbox"/>
• Zoroastrianism	<input type="checkbox"/>	• Cultural Institutions in India	<input type="checkbox"/>
• Judaism	<input type="checkbox"/>	• Awards and Honours Associated with Culture	<input type="checkbox"/>
• Philosophy in India	<input type="checkbox"/>	• The Calendar	<input type="checkbox"/>
<b>□ Bhakti &amp; Sufi Movements</b>		• The Eras	<input type="checkbox"/>
• Bhakti Movement	<input type="checkbox"/>	• Science and Technology in Ancient India	<input type="checkbox"/>
• Vaishnava Acharyas: Metaphysical Foundation	<input type="checkbox"/>	• UNESCO's List of Cultural Heritage in India	<input type="checkbox"/>
• Other Saints of Bhakti Movement	<input type="checkbox"/>	• Legal Provisions Related to the Protection and Promotion of Indian Culture and Heritage	<input type="checkbox"/>
• Maharashtra Dharma	<input type="checkbox"/>		



## CONTEMPORARY ISSUES

- Understanding Socio-cultural patterns and practices of Pre-Historic- Paintings and Potteries
- Neolithic Art- A peek into early art forms and practices
- Chalcolithic Arts- Potteries and cultural practices
- Sculptures and Images/Representative art: Decoding Socio-cultural aspects of Indus valley Civilization.
- Seals of Indus valleys: Prospects to contrast and analyze contemporary civilization
- Literary excellence and Significance- Shrutis, Smiriti and Brahmanas
- Why Vedic age is different from Indus valley? Understanding the gap through sources
- Upanishads: Highest point of Indian philosophical thoughts
- Rise of Heterodox Sects; Buddhism, Jainism and Other Ajivikas
- Revival of Hinduism and new elements and cults, Tantrism
- The Golden age of Gupta Period- myth, legends and reality
- Reconstructing Gupta's and Post Gupta and their cultural aspects through pillars, inscriptions and numismatics
- Early Medieval India: Change and Continuity, cultural features.
- Contribution of regional states in Architectural development and Cultural enrichment
- Bhakti & Sufism in India: strengthening Social-Cultural realm
- What made Mughals great- analysis through lens of culture?



# GEOGRAPHY

## PHYSICAL GEOGRAPHY

### □ General Geography

#### ● The origin of the Earth

- Early Theories
- Modern Theories – BBT
- Star Formation
- Formation of Planets
- Solar System

#### ● The Evolution of the Earth

- Layered Structure (5 layers)
- Evolution of Lithosphere
- Evolution of Atmosphere
- Evolution of Hydrosphere

#### ● Geological History of the Earth

- Latitude and Longitude including important Parallels and Meridians
- Motions of the Earth - Rotation, Revolution and their effects
- Inclination of the Earth's Axis and its effects
- Local and Standard Time and the International Date Line, Calendar
- Eclipses - Solar, Lunar

#### ● Origin of Life

#### ● Geological Time Scale

### □ Geomorphology

#### ■ Interior of the Earth

- Sources of Information 
  - ◆ Direct
  - ◆ Indirect - Earthquakes, Waves and Magnetic Field
- Seismic waves 
  - ◆ Body waves
  - ◆ Surface waves

- ◆ Understanding earth's interior with help of seismic waves

#### ○ Internal Structure of earth

- ◆ Crust
- ◆ Lithosphere
- ◆ Mantle
- ◆ Asthenosphere
- ◆ Outer core
- ◆ Inner core
- ◆ Seismic Discontinuities

#### ■ Geology

- Minerals
- Major Elements of the Earth's Crust 
  - ◆ Minerals – Feldspar, Quartz, Pyroxene Amphibole, Mica, Olivine
  - ◆ Physical Characteristics – Crystal Form, Cleavage Fracture, Lusture, Color, Streak, Transparency, Structure, Hardness, Specific Gravity
  - ◆ Metallic minerals – precious Ferrous, Non Ferrous
  - ◆ Non-metallic Minerals – Sulphur, Phosphates, Cement
- Rocks (Aggregate of Minerals)
- Petrology
- Rocks & landforms
- Rocks & Soils
- 3 Family of Rocks 
  - ◆ Igneous
  - ◆ Sedimentary
  - ◆ Metamorphic
- Rock Cycle
- Earthquakes 
  - Waves: P, S, Body & Surface

○ Shadow Zone	<input type="checkbox"/>	◆ Endogenic Forces	<input type="checkbox"/>
○ Types of Earthquakes	<input type="checkbox"/>	◆ Gradation, Degradation & Agradation	<input type="checkbox"/>
○ Causes of Earthquake	<input type="checkbox"/>	○ Geomorphic Process	<input type="checkbox"/>
○ Effects	<input type="checkbox"/>	◆ Endogenic Process	<input type="checkbox"/>
○ Frequency	<input type="checkbox"/>	◆ Diastrophism	<input type="checkbox"/>
○ Locating an Epicentre	<input type="checkbox"/>	◆ Orogenic	<input type="checkbox"/>
○ Distribution of Earthquake	<input type="checkbox"/>	◆ Epierogenic	<input type="checkbox"/>
○ Earthquake Observatories	<input type="checkbox"/>	◆ Earthquakes	<input type="checkbox"/>
■ <b>Volcano</b>		◆ Plate movements	<input type="checkbox"/>
○ Types	<input type="checkbox"/>	◆ Volcanism	<input type="checkbox"/>
◆ Shield	<input type="checkbox"/>	○ Exogenic Forces	<input type="checkbox"/>
◆ Composite	<input type="checkbox"/>	○ Denudation Processes	<input type="checkbox"/>
◆ Caldera	<input type="checkbox"/>	○ Weathering	<input type="checkbox"/>
◆ Flood Basalt	<input type="checkbox"/>	○ Mass movements	<input type="checkbox"/>
◆ Mid Ocean Ridge	<input type="checkbox"/>	○ Erosion: Transportation & Deposition	<input type="checkbox"/>
○ Types of lava	<input type="checkbox"/>	■ <b>Distribution of Continents &amp; Oceans</b>	
◆ Andesitic or Acidic lava	<input type="checkbox"/>	● Theories	
◆ Basic or Basaltic lava	<input type="checkbox"/>	○ Continental Drift Theory	<input type="checkbox"/>
○ Intrusive volcanic Landforms	<input type="checkbox"/>	◆ Alfred Wegner 1912	<input type="checkbox"/>
◆ Batholiths	<input type="checkbox"/>	◆ Pangea, Panthalasa	<input type="checkbox"/>
◆ Lacoliths	<input type="checkbox"/>	◆ Laurasia, Gondwana land	<input type="checkbox"/>
◆ Lapoliths	<input type="checkbox"/>	● Evidence in support of Continental Drift Theory	
◆ Phacoliths	<input type="checkbox"/>	○ Jigsaw Fit	<input type="checkbox"/>
◆ Sills	<input type="checkbox"/>	○ Rocks of same age across oceans	<input type="checkbox"/>
◆ Dykes	<input type="checkbox"/>	◆ Tillite	<input type="checkbox"/>
○ Extrusive Volcanic Landforms	<input type="checkbox"/>	◆ Placer Deposits	<input type="checkbox"/>
○ Geysers and Hot springs	<input type="checkbox"/>	◆ Distribution of Fossils	<input type="checkbox"/>
○ Extinct, Dormant and Active volcanoes	<input type="checkbox"/>	○ Forces of Drifting	<input type="checkbox"/>
○ Distribution of Volcanoes	<input type="checkbox"/>	◆ Pole Fleeing Force	<input type="checkbox"/>
◆ Pacific Ring of Fire	<input type="checkbox"/>	◆ Tidal Force	<input type="checkbox"/>
◆ Mediterranean volcanism	<input type="checkbox"/>	○ Post Drift Studies	<input type="checkbox"/>
◆ Other regions	<input type="checkbox"/>	◆ Convectional Current Theory	<input type="checkbox"/>
○ Effects of Volcanoes	<input type="checkbox"/>	◆ Mapping of the Ocean Floor	<input type="checkbox"/>
● <b>Tsunami</b>		● Continents – plate Tectonics	
○ Mechanism of Tsunami waves	<input type="checkbox"/>	○ Lithospheric Plates	<input type="checkbox"/>
○ Properties of Tsunami waves	<input type="checkbox"/>	◆ Major Plate	<input type="checkbox"/>
○ Effects of Tsunami	<input type="checkbox"/>	◆ Minor Plates	<input type="checkbox"/>
■ <b>Geomorphic Processes</b>		○ Plate Boundaries	<input type="checkbox"/>
○ Earth's Surface	<input type="checkbox"/>	◆ Divergent	<input type="checkbox"/>
◆ Exogenic Forces	<input type="checkbox"/>		

◆ Convergent	<input type="checkbox"/>	◆ Gullies	<input type="checkbox"/>
◆ Transform	<input type="checkbox"/>	◆ Valleys – V Shape, Gorge (Hard Rocks), Canyon (Sedimentary)	<input type="checkbox"/>
○ Rates of Plate Movements	<input type="checkbox"/>	◆ Potholes & Plunge pools	<input type="checkbox"/>
○ Force of plate movements	<input type="checkbox"/>	◆ Incised or entrenched meanders	<input type="checkbox"/>
○ Indian Plate	<input type="checkbox"/>	◆ River Terraces – paired & unpaired	<input type="checkbox"/>
◆ Movement from 71 million years ago till today	<input type="checkbox"/>	○ Depositional Landforms	<input type="checkbox"/>
■ <b>Landforms and their Evolution</b>		◆ Alluvial Fans	<input type="checkbox"/>
○ Causes	<input type="checkbox"/>	◆ Delta	<input type="checkbox"/>
○ Geomorphic Processes	<input type="checkbox"/>	◆ Floodplains, Natural Levees, Point Bars	<input type="checkbox"/>
○ Agents	<input type="checkbox"/>	◆ Meanders, Slip off bank, Under cut bank	<input type="checkbox"/>
● Geomorphic Agents		◆ Oxbow lake	<input type="checkbox"/>
○ Erosional or Destructional	<input type="checkbox"/>	◆ Braided Channels	<input type="checkbox"/>
○ Depositional or Constructional	<input type="checkbox"/>	● Ground Water (Karst Topography)	
● Agents and their Impacts		○ Permeable Rocks	<input type="checkbox"/>
○ Wind, Running Water, Ground Water, Glaciers, Waves & Currents	<input type="checkbox"/>	◆ Percolation	<input type="checkbox"/>
● Winds		◆ Bedding Plains	<input type="checkbox"/>
○ One of the Two dominant agents in Hot deserts	<input type="checkbox"/>	○ Limestone and Dolomite Regions	<input type="checkbox"/>
○ Cause – Deflation Abrasion Impact	<input type="checkbox"/>	◆ Balkans, Adjacent to Adriatic regions	<input type="checkbox"/>
○ Erosional landforms	<input type="checkbox"/>	○ Erosional Landforms	<input type="checkbox"/>
◆ Pediments and Pediplains	<input type="checkbox"/>	◆ Pools-Swallow Hole, Valley Sinks (Uvalas), Sinkholes, Collapse sinks (Dolines), Lapias, Ridges, Limestone Pavements	<input type="checkbox"/>
◆ Playas	<input type="checkbox"/>	◆ Caves – Altering bed of Rocks (Shale sandstone quartzite), Caves and Tunnels	<input type="checkbox"/>
◆ Deflation Hollows and Caves	<input type="checkbox"/>	○ Depositional landforms	<input type="checkbox"/>
◆ Mushroom, Table & Pedestal Rocks	<input type="checkbox"/>	◆ Stalactites	<input type="checkbox"/>
○ Depositional Landforms	<input type="checkbox"/>	◆ Stalagmites	<input type="checkbox"/>
◆ Barchans	<input type="checkbox"/>	◆ Pillar Columns	<input type="checkbox"/>
◆ Seif	<input type="checkbox"/>	● Glaciers	<input type="checkbox"/>
◆ Parabolic	<input type="checkbox"/>	○ Erosional Landforms	<input type="checkbox"/>
◆ Transverse	<input type="checkbox"/>	◆ Cirque of Tarn Lakes	<input type="checkbox"/>
◆ Longitudinal	<input type="checkbox"/>	◆ Hors and Serrated Regions – Arete	<input type="checkbox"/>
● Running Water		◆ Glacial Valleys/ Troughs – Fiords	<input type="checkbox"/>
○ Humid Regions	<input type="checkbox"/>	○ Depositional Landforms	<input type="checkbox"/>
○ 2 Components	<input type="checkbox"/>	◆ Glacial Till	<input type="checkbox"/>
◆ Overland Flow – Sheet	<input type="checkbox"/>	◆ Moraines	<input type="checkbox"/>
◆ Linear Flow – Streams	<input type="checkbox"/>	◆ Eskers	<input type="checkbox"/>
○ Stages	<input type="checkbox"/>	◆ Outwash Planes	<input type="checkbox"/>
◆ Youth, Mature, Old	<input type="checkbox"/>	◆ Drumlins	<input type="checkbox"/>
○ Erosional Landforms	<input type="checkbox"/>		
◆ Valleys	<input type="checkbox"/>		
◆ Rills	<input type="checkbox"/>		

<ul style="list-style-type: none"> <li>• Waves and Currents                             <ul style="list-style-type: none"> <li>◦ High Rocky Coasts &amp; Low Sedimentary Coasts <input type="checkbox"/></li> <li>◦ Erosional Landforms <input type="checkbox"/> <ul style="list-style-type: none"> <li>◆ Clifs <input type="checkbox"/></li> <li>◆ Terraces <input type="checkbox"/></li> <li>◆ Caves <input type="checkbox"/></li> <li>◆ Stacks <input type="checkbox"/></li> </ul> </li> <li>◦ Depositional Landforms <input type="checkbox"/> <ul style="list-style-type: none"> <li>◆ Beaches and Dunes <input type="checkbox"/></li> <li>◆ Bars Barriers Spits <input type="checkbox"/></li> </ul> </li> </ul> </li> <li>• Weathering                             <ul style="list-style-type: none"> <li>◦ Weather over Earth Materials <input type="checkbox"/></li> <li>◦ Factors <input type="checkbox"/> <ul style="list-style-type: none"> <li>◆ Geological <input type="checkbox"/></li> <li>◆ Climatic <input type="checkbox"/></li> <li>◆ Topographic <input type="checkbox"/></li> <li>◆ Vegetative <input type="checkbox"/></li> </ul> </li> <li>◦ Major Processes <input type="checkbox"/> <ul style="list-style-type: none"> <li>◆ Chemical <input type="checkbox"/></li> <li>◆ Physical or Mechanical <input type="checkbox"/></li> <li>◆ Biological <input type="checkbox"/></li> </ul> </li> <li>◦ Chemical – Forces Chemical Action <input type="checkbox"/> <ul style="list-style-type: none"> <li>◆ Solution <input type="checkbox"/></li> <li>◆ Carbonation <input type="checkbox"/></li> <li>◆ Hydration <input type="checkbox"/></li> <li>◆ Oxidation &amp; Reduction <input type="checkbox"/></li> </ul> </li> <li>◦ Physical Forces Gravitational, Expansion, Water Pressure <input type="checkbox"/> <ul style="list-style-type: none"> <li>◆ Unloading &amp; Expansion <input type="checkbox"/></li> <li>◆ Temperature changes and Expansion <input type="checkbox"/></li> <li>◆ Freezing, Thawing, &amp; Frost Wedging <input type="checkbox"/></li> <li>◆ Salt Weathering <input type="checkbox"/></li> </ul> </li> <li>◦ Biological Weathering <input type="checkbox"/> <ul style="list-style-type: none"> <li>◆ Burrowing <input type="checkbox"/></li> <li>◆ Wedging <input type="checkbox"/></li> <li>◆ Plant Roots <input type="checkbox"/></li> <li>◆ Effects of Weathering <input type="checkbox"/></li> <li>◆ Exfoliation (Flaking) – Exfoliation Domes, Tors <input type="checkbox"/></li> </ul> </li> <li>◦ Significance of Weathering <input type="checkbox"/> <ul style="list-style-type: none"> <li>◆ Soil Formation <input type="checkbox"/></li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>◆ Biomes and Biodiversity <input type="checkbox"/></li> <li>◆ Leaching/Enrichment <input type="checkbox"/></li> <li>◦ Mass Movements <input type="checkbox"/> <ul style="list-style-type: none"> <li>◆ Activating causes <input type="checkbox"/></li> <li>◆ Forms of movement – Heave Flow Slide <input type="checkbox"/></li> <li>◆ 3 major Groups – Slow Movement, Rapid Movements, Land Slides <input type="checkbox"/></li> </ul> </li> <li>■ <b>Landforms across the world:</b> <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Rivers and lakes <input type="checkbox"/></li> </ul> </li> <li>■ <b>Mountain &amp; Peaks</b> <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Fold Mountain <input type="checkbox"/></li> <li>◦ Block Mountain <input type="checkbox"/></li> <li>◦ Volcanic mountains <input type="checkbox"/></li> </ul> </li> <li>■ <b>Plateaus</b> <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Plateau Formation process <input type="checkbox"/></li> <li>◦ Plateau Types <input type="checkbox"/> <ul style="list-style-type: none"> <li>◆ Dissected plateau <input type="checkbox"/></li> <li>◆ Volcanic plateau <input type="checkbox"/></li> </ul> </li> <li>◦ Economic significance of plateau <input type="checkbox"/></li> <li>◦ Major plateau of the world <input type="checkbox"/></li> </ul> </li> <li>□ <b>Climatology</b> <ul style="list-style-type: none"> <li>■ <b>Composition of Atmosphere</b> <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Gases <input type="checkbox"/></li> <li>◦ Water Vapour <input type="checkbox"/></li> <li>◦ Dust Particles <input type="checkbox"/></li> </ul> </li> <li>■ <b>Structure</b> <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Exosphere <input type="checkbox"/></li> <li>◦ Thermosphere <input type="checkbox"/></li> <li>◦ Mesosphere <input type="checkbox"/></li> <li>◦ Stratosphere <input type="checkbox"/></li> <li>◦ Troposphere <input type="checkbox"/></li> <li>◦ Altitude vs Temperature <input type="checkbox"/></li> </ul> </li> <li>■ <b>Solar Radiation Heat Balance Temperature</b> <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Insolation <input type="checkbox"/></li> <li>◦ Aphelion and Perihelion <input type="checkbox"/></li> <li>◦ Variability of Insolation at the surface of the Earth <input type="checkbox"/> <ul style="list-style-type: none"> <li>◆ Day Season Year <input type="checkbox"/></li> <li>◆ Rotation on Axis, Angle of Inclination of sun rays, Length of the day <input type="checkbox"/></li> </ul> </li> </ul> </li> </ul> </li> </ul>
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- ◆ Transparency of Atmosphere, configuration of land in terms of its aspect

### ■ Heat Balance

- Heating and cooling of atmosphere 
  - ◆ Conduction
  - ◆ Convection
  - ◆ Advection
- Terrestrial Radiation
- Heat Budget of the Planet Earth
- Macro Budget 
  - ◆ Albedo
  - ◆ Shortwave Radiation
  - ◆ Long wave Earth Radiation
- Variation in the net Heat Budget at the Earth's Surface

### ■ Temperature(T)

- Factors controlling T distribution
- Distribution of T Month of January-July
- Range of T Month of January-July
- Inversion of Temperature

### ■ Atmospheric Circulation and Weather Systems

- Atmospheric Pressure
- Vertical variation of pressure
- Horizontal distribution of pressure
- World Distribution of Sea Level Pressure
- Factors affecting the velocity and direction of the WIND 
  - ◆ Pressure Gradient Force
  - ◆ Frictional Force
  - ◆ Coriolis Force
  - ◆ Pressure and Wind (Cyclonic & Anticyclone Circulation)

### ■ General Circulation of the Atmosphere – Pattern of Planetary Winds

- Latitudinal Variation of Atmospheric Heating
- Emergence of Pressure Belts
- Migration of Belts Following apparent Path of Sun

- Distribution of continents & Oceans
- Rotation of the Earth

### ■ Circulation

- Simplified Global Circulation – Hadley Cell, Ferrel Cell, Polar cell
- Seasonal Wind
- Local Wind
- Land and Sea Breezes
- Mountain and Valley winds
- AIR MASS – fronts
- Extra Tropical Cyclone
- Thunderstorms
- Tornadoes

### ■ Water in the Atmosphere

- Water Vapour
- Precipitation
- Humidity – Absolute and Relative
- Saturation – Dew Point
- Evaporation and Condensation 
  - ◆ Dew
  - ◆ Frost
  - ◆ Fog & Mist
- Clouds 
  - ◆ Types – Cirrus Cumulus Stratus Nimbus
  - ◆ High – Cirrus Cirrostratus Cirrocumulus
  - ◆ Middle – Altostratus Altopcumulus
  - ◆ Low – Stratocumulus Nimbostratus
  - ◆ Vertical Development – Cumulus and Cumulonimbus
- Precipitation 
  - ◆ Rainfall Snowfall Sleet Hail Hailstones
- Types of Rainfall 
  - ◆ Conventional
  - ◆ Orographic
  - ◆ Cyclonic
  - ◆ Frontal
  - ◆ Monsoonal
- World Distribution of Rainfall

■ **Tropical Cyclone**

- Conditions required for formation 
  - ◆ Tropical Cyclone
- Convective cyclogenesis (Development of Tropical Cyclone)
- Path of Tropical Cyclone
- Damage associated with Cyclone
- Arabian Sea Cyclone
- Naming of Tropical Cyclone
- Early warning system for tropical Cyclone

■ **Jet Streams**

- Features of Jet streams
- Types 
  - ◆ Permanent
  - ◆ Temporary
- Influence of Jet streams on weather
- Jet streams and aviation

■ **Temperate Cyclones**

- Air masses
- Fronts
- Origin and development of Temperate Cyclone
- Comparison between Tropical and Temperate Cyclone

■ **Polar Vortex**

- Polar vortex details
- Polar vortex and Ozone depletion

■ **El Nino and La Nina**

- ENSO
- Indian Ocean dipole effect
- Effect on regional and world climate
- Effect of these events on Indian Monsoon

■ **World Climate**

- The Hot, Wet Equatorial Climate
- The Tropical Monsoon and Tropical Marine Climates
- The Savanna or Sudan Climate
- The Hot Desert and Mid-Latitude
- Desert Climates

- The Warm Temperate Western Margin (Mediterranean) Climate
- The Temperate Continental (Steppe) Climate
- The Warm Temperate Eastern Margin (China Type) Climate
- The Cool Temperate Western Margin (British Type) Climate
- The Cool Temperate Continental (Siberian) Climate
- The Cool Temperate Eastern Margin (Laurentian) Climate
- The Arctic or Polar Climate

□ **Oceanography**

■ **Water on the Surface of the Earth**

- Hydrological Cycle 
  - ◆ Component
  - ◆ Processes

■ **Oceans**

- Relief of the Ocean floor
- 4 divisions of the ocean floor 
  - ◆ Continental Shelf
  - ◆ Continental Slope
  - ◆ Deep sea plain
  - ◆ Oceanic deep and Trenches
- Minor relief features 
  - ◆ Mid oceanic ridges
  - ◆ Seamount
  - ◆ Submarine canyons
  - ◆ Guy outs
  - ◆ Atoll

■ **Temperature of the Ocean Water**

- Vertical
- Spatial
- Factors affecting Temperature distribution
- Horizontal & Vertical Distribution 
  - ◆ Thermocline
  - ◆ 3 layers

■ **Salinity of the Ocean Water**

- Factors affecting salinity
- Vertical Distribution of salinity
- Density of Ocean Waters

■ **Movements of ocean Water**

- Factors influencing Movement
- Motion – Horizontal & Vertical Currents
- Waves 
  - ◆ Motion of waves and water molecules
  - ◆ Characteristics of Wave
- Relation between Gravitational Forces and Tides 
  - ◆ Tidal currents
  - ◆ Types of Tides
  - ◆ Based on Frequency
  - ◆ Based on SME position
- Importance of Tides
- **Ocean Currents**
  - Influenced by 2 forces
  - Primary Force that initiates the movement
  - Secondary force that influence the currents to flow
  - Characteristic
  - Types of ocean curenets 
    - ◆ Surface currents & Deep watercurrents based on Depth
    - ◆ Cold and Warm Currents based on Temperature
  - Major Ocean currents of the World
  - Effects of Ocean Currents
  - Desert formation and Ocean currents
  - Atlantic Meridional Overturning Circulation
- **Resources from the Ocean**
  - Ocean deposits 
    - ◆ Terrigenous Deposits
    - ◆ Pelagic deposits
  - Mineral resources on deep sea floor
  - Energy resources
  - Biotic resources
  - Deep ocean mission
  - UNCLOS 
    - ◆ Territorial Waters
    - ◆ Contiguous Zone
    - ◆ Exclusive Economic Zone
    - ◆ High Seas

## □ **Water Resource**

- Underground water resource
- Surface water resources
- Inland water resources: Utilization of inland water resources
- Oceanic water resources: Main features of ocean
- Utilization of oceans by man
- Water consumption patterns
- Water pollution
- Conservation of water resources
- Techniques of water conservation
- River Interlinking Projects
- The problem of ageing dams

## □ **Biogeography**

### ■ **Soil**

- Soil Characteristics
- Factors Responsible for Soil Formation
- Stages of Soil Formation
- Soil Forming Processes
- Soil Profiles and Horizons
- Soil Classification
- Soil Erosion and Conservation

### ■ **Vegetation Resources**

- Types of Natural Vegetation
- Forests 
  - Significance of forests 
    - ◆ Economic significance
    - ◆ Ecological significance
    - ◆ Cultural significance
  - Factors of forest development
  - Extent of forest cover
  - Classification of forests 
    - ◆ Grasslands
    - ◆ Desert vegetation
    - ◆ Tundra Vegetation
  - Economic utilization of forests
  - Deforestation 
    - ◆ Deforestation in tropical forests

- ◆ Deforestation in temperate forests
- ◆ Rate and extent of deforestation
- ◆ Causes and factors of deforestation: Immediate causes of deforestation
- ◆ Indirect deforestation
- ◆ Underlying causes of deforestation
- Conservation of forests 
  - ◆ Forest conservation strategies

- ◆ Reforestation
- ◆ Monoculture plantation
- ◆ Afforestation
- Types of forestry 
  - ◆ Social forestry
  - ◆ Agro-forestry
  - ◆ Miyawaki Method

## PHYSICAL GEOGRAPHY OF INDIA

### □ Physiography of India

- Location
- Geopolitical Significance of India
- Geological Divisions
- The Peninsular Block
- The Himalayas and other Peninsular Mountains
- Indo-Ganga-Brahmaputra Plain
- Physiographic Divisions

### □ Drainage System

- Drainage Patterns
- Drainage System of India
- Himalayan Drainage System
- River Systems of Himalayan Drainage
- Indus river system
- Ganga River System
- Brahmaputra river system
- River Systems of Peninsular Drainage
- Small Rivers Flowing Towards East and West

### □ Climate

- Factors influencing the climate of India
- Monsoon

- Mechanism of the Monsoon
- Classical Theory
- Modern theory
- Air mass theory
- Jet stream theory
- EL-NINO and LA-NINA & their impact
- The rhythm of Seasons
- The cold weather season
- The hot weather season
- The southwest monsoon season
- The retreating monsoon season
- Climatic Regions of India

### □ Soils in India

- Classification of Soils
- Soil textures
- Issue of Soil degradation & Soil Erosion
- Soil Conservation

### □ Natural Vegetation

- Types of Forests in India
- Forest Cover in India
- Forest Conservation
- Forest Problems in India

## HUMAN GEOGRAPHY

### □ Demography

- Concept of Human Resources

- Population Distribution
- Factors of Population Distribution

<ul style="list-style-type: none"> <li>○ Physical factors <input type="checkbox"/></li> <li>○ Socio-cultural factors <input type="checkbox"/></li> <li>○ Demographic factors <input type="checkbox"/></li> <li>● World population distribution <input type="checkbox"/></li> <li>● Continent-wise distribution of population <input type="checkbox"/></li> <li>● Density of population <input type="checkbox"/></li> <li>● Pattern of population density <input type="checkbox"/></li> <li>● Causes of rapid increase in population <input type="checkbox"/></li> <li>● Determinants of population growth <input type="checkbox"/></li> <li>● Characteristics of population <input type="checkbox"/></li> <li>● Age composition <input type="checkbox"/></li> <li>● Population pyramids <input type="checkbox"/></li> <li>● Sex composition <input type="checkbox"/></li> <li>● Literacy <input type="checkbox"/></li> <li>● Theories of population growth <input type="checkbox"/></li> <li>● Malthusian theory <input type="checkbox"/></li> <li>● Marxian theory <input type="checkbox"/></li> <li>● Demographic transition theory <input type="checkbox"/></li> <li>● Population problems <input type="checkbox"/></li> <li>● Population problems of developing countries <input type="checkbox"/></li> <li>● Population problems of developed countries <input type="checkbox"/></li> <li>● Population dilemma of Europe <input type="checkbox"/></li> <li>● Population Policies of China and India <input type="checkbox"/></li> <li>● Various types of rural settlements <input type="checkbox"/></li> <li>● Relationship between house types with relief, climate and building materials <input type="checkbox"/></li> <li>● Rising Youth Population <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>Development) Act, 2016</li> <li>● Way Forward to Tackle Issues Related to Urbanization <input type="checkbox"/></li> <li>● Inclusive Cities/Smart cities <input type="checkbox"/></li> <li>● Recent government programmes: <input type="checkbox"/></li> <li>● Migration &amp; Reverse Migration <input type="checkbox"/></li> <li>● Displacement <input type="checkbox"/></li> <li>● Importance of the Rehabilitation Policy <input type="checkbox"/></li> <li>● Urban settlements: types <input type="checkbox"/></li> <li>● Urbanisation process in India <input type="checkbox"/></li> <li>● Morphology of urban settlements <input type="checkbox"/></li> <li>● Town planning and patterns of rural settlement <input type="checkbox"/></li> <li>● Settlement types of the world <input type="checkbox"/></li> <li>● Migration: Push factors and pull factors <input type="checkbox"/></li> <li>● Emigration during colonial, post-independent and post-liberalisation period <input type="checkbox"/></li> <li>● Internal versus world migration <input type="checkbox"/></li> <li>● Functional classification of cities <input type="checkbox"/></li> <li>● Difference between boundaries and frontiers, their classification <input type="checkbox"/></li> <li>● Rural urban fringe characteristics, advantages, problems <input type="checkbox"/></li> <li>● National urbanisation policy <input type="checkbox"/></li> <li>● Principles of urban planning <input type="checkbox"/></li> <li>● Land cover transformation <input type="checkbox"/></li> <li>● Factors affecting rural settlements, their types and patterns <input type="checkbox"/></li> <li>● Cities – hierarchical classification, morphological classification <input type="checkbox"/></li> </ul>
<p>□ <b>Urbanization</b></p> <ul style="list-style-type: none"> <li>● Basic Feature and Pattern of India's Urbanization <input type="checkbox"/></li> <li>● Issues of Urbanization in India <input type="checkbox"/></li> <li>● Rural Urban Migration <input type="checkbox"/></li> <li>● Emergence of Slums <input type="checkbox"/></li> <li>● Urban Transport <input type="checkbox"/></li> <li>● Waste Disposal <input type="checkbox"/></li> <li>● Water Supply, Drainage and Sanitation <input type="checkbox"/></li> <li>● Urban Poverty <input type="checkbox"/></li> <li>● Real Estate (Regulation &amp;</li> </ul>	<p>□ <b>Census</b></p> <ul style="list-style-type: none"> <li>● Literacy <input type="checkbox"/></li> <li>● Sex ratio <input type="checkbox"/></li> <li>● Family Planning <input type="checkbox"/></li> <li>● Old Age <input type="checkbox"/></li> <li>● Age Structure <input type="checkbox"/></li> <li>● Density <input type="checkbox"/></li> <li>● Population growth <input type="checkbox"/></li> <li>● Census terminology <input type="checkbox"/></li> <li>● Caste Census Issues <input type="checkbox"/></li> </ul>

## ECONOMIC GEOGRAPHY

□ **Agriculture**

■ **Land Resource**

- Land-use
- Land capability classification
- Causes of Land Degradation
- Impact of Land Degradation
- Steps taken by GOI
- Sustainable Land Management

■ **Basic terms related to Agriculture**

- Performance of the agriculture sector
- Types of farming in India
- Cropping seasons in India
- Cropping Pattern in India
- Agriculture regionalization
- Infrastructure factors: Seeds; Fertilizers; Irrigation
- Land use pattern in India
- Institutional Factors as land reform
- Horticulture sector in India
- Agricultural revolutions
- Agricultural labours
- Price Policy for Agriculture
- Agricultural marketing
- Agricultural Insurance
- Agricultural Census
- Major schemes in agricultural sector
- National Policy for farmers
- Impact of climate change on agriculture
- What is sustainable agriculture?
- Use of IT in agriculture
- Agriculture Issues and Challenges

■ **Productivity of Crops and conditions**

**for growth**

- Wheat 
  - ◆ Conditions of growth
  - ◆ Varieties
  - ◆ Types of cultivation
  - ◆ Production pattern
  - ◆ International trade
- Rice 
  - ◆ Conditions of growth
  - ◆ Varieties
  - ◆ Methods of cultivation
  - ◆ Production pattern
  - ◆ International trade
- Maize (Corn) 
  - ◆ Conditions of growth
  - ◆ Production pattern
  - ◆ International trade
- Barley 
  - ◆ Conditions of growth
  - ◆ Production pattern
  - ◆ International trade
- Oats
- Rye
- Beverages
- Tea 
  - ◆ Condition of growth
  - ◆ Production pattern
  - ◆ International trade
- Coffee 
  - ◆ Types of coffee
  - ◆ Conditions of growth
  - ◆ Production pattern
  - ◆ International trade
- Cocoa 
  - ◆ Conditions of growth
  - ◆ Production pattern
  - ◆ International trade
- Tobacco

◆ Conditions of growth	<input type="checkbox"/>	● Distribution, production and international trade of Metallic minerals:	<input type="checkbox"/>
◆ Production pattern	<input type="checkbox"/>	Ferrous metals: Iron ore	
◆ International trade	<input type="checkbox"/>	● Ferro-alloys and non-ferrous	<input type="checkbox"/>
○ Fibre Crops	<input type="checkbox"/>	● Manganese	<input type="checkbox"/>
◆ Cotton	<input type="checkbox"/>	● Chromium	<input type="checkbox"/>
○ Varieties of cotton	<input type="checkbox"/>	● Nickel	<input type="checkbox"/>
○ Conditions of growth	<input type="checkbox"/>	● Tungsten	<input type="checkbox"/>
○ Production pattern	<input type="checkbox"/>	● Antimony	<input type="checkbox"/>
○ International trade	<input type="checkbox"/>	● Copper	<input type="checkbox"/>
◆ Jute	<input type="checkbox"/>	● Bauxite and Aluminium	<input type="checkbox"/>
○ Conditions of growth	<input type="checkbox"/>	● Zinc; Lead	<input type="checkbox"/>
○ Production pattern	<input type="checkbox"/>	● Tin	<input type="checkbox"/>
○ International trade	<input type="checkbox"/>	● Precious metals: Gold	<input type="checkbox"/>
○ Substitutes of Jute: Flax, Hemp	<input type="checkbox"/>	● Silver	<input type="checkbox"/>
○ Abaca, Henequeno	<input type="checkbox"/>	● Platinum	<input type="checkbox"/>
○ Sisal	<input type="checkbox"/>	● Mineral chemicals	<input type="checkbox"/>
◆ Raw Silk	<input type="checkbox"/>	● Mica	<input type="checkbox"/>
○ Production pattern	<input type="checkbox"/>	● Potash	<input type="checkbox"/>
○ International trade	<input type="checkbox"/>	● Phosphate	<input type="checkbox"/>
◆ Natural Rubber	<input type="checkbox"/>	● Nitrates	<input type="checkbox"/>
◆ Other sources of rubber	<input type="checkbox"/>	● Sulphur	<input type="checkbox"/>
◆ Plantations in South-east Asia	<input type="checkbox"/>	● Conservation of mineral resources	<input type="checkbox"/>
◆ Production pattern	<input type="checkbox"/>	□ <b>Energy resources</b>	
◆ International trade	<input type="checkbox"/>	● Classification of energy	<input type="checkbox"/>
◆ Sugarcane	<input type="checkbox"/>	● Production of conventional energy	<input type="checkbox"/>
◆ Conditions of growth	<input type="checkbox"/>	● General trends of energy production and consumption	<input type="checkbox"/>
◆ Production pattern	<input type="checkbox"/>	● Reserves and sources of energy	<input type="checkbox"/>
◆ International trade	<input type="checkbox"/>	● Coal	<input type="checkbox"/>
◆ Sugarbeet	<input type="checkbox"/>	● Nature and origin of coal	<input type="checkbox"/>
◆ Conditions of growth	<input type="checkbox"/>	● Constituents and kinds of coal	<input type="checkbox"/>
◆ Production pattern	<input type="checkbox"/>	● Coal fields and coal production	<input type="checkbox"/>
◆ Sugar industry	<input type="checkbox"/>	● By products of coal	<input type="checkbox"/>
◆ Sugar consumption	<input type="checkbox"/>	● Conservation of Coal	<input type="checkbox"/>
◆ International trade	<input type="checkbox"/>	● Petroleum	<input type="checkbox"/>
□ <b>Mineral resource</b>		● Nature and properties of petroleum	<input type="checkbox"/>
● Types of minerals	<input type="checkbox"/>	● Origin and recovery	<input type="checkbox"/>
● Metallic minerals	<input type="checkbox"/>	● Exploration	<input type="checkbox"/>
● Non-metallic mineral	<input type="checkbox"/>	● Petroleum refining	<input type="checkbox"/>
● Distribution of minerals and mining regions	<input type="checkbox"/>		

<ul style="list-style-type: none"> <li>● Petroleum reserves <input type="checkbox"/></li> <li>● Producing areas <input type="checkbox"/></li> <li>● Consumption of petroleum <input type="checkbox"/></li> <li>● International trade <input type="checkbox"/></li> <li>● OPEC and its role in oil trade <input type="checkbox"/></li> <li>● Natural gas: Reserves and Production <input type="checkbox"/></li> <li>● Hydro-electricity <input type="checkbox"/></li> <li>● Advantages of hydro-electricity <input type="checkbox"/></li> <li>● Ideal conditions for generation of hydro-electricity <input type="checkbox"/></li> <li>● Distribution of potential hydro-power <input type="checkbox"/></li> <li>● Hydro-electric Power Generation <input type="checkbox"/></li> <li>● Atomic (Nuclear) Energy <input type="checkbox"/></li> <li>● Atomic: source minerals: Uranium <input type="checkbox"/> <ul style="list-style-type: none"> <li>○ World distribution of uranium</li> </ul> </li> <li>● Production of uranium <input type="checkbox"/></li> <li>● Thorium <input type="checkbox"/> <ul style="list-style-type: none"> <li>○ Production of Atomic (Nuclear) Energy</li> </ul> </li> <li>● Nuclear Energy: the energy of future <input type="checkbox"/></li> <li>● Alternative (non-conventional) <input type="checkbox"/></li> <li>● Sources of energy <input type="checkbox"/></li> <li>● Renewable Energy <input type="checkbox"/> <ul style="list-style-type: none"> <li>○ Solar Energy <input type="checkbox"/></li> <li>○ Wind Energy <input type="checkbox"/></li> <li>○ Geothermal Energy <input type="checkbox"/></li> <li>○ Tidal Energy <input type="checkbox"/></li> <li>○ Wave Energy <input type="checkbox"/></li> <li>○ Biomass Energy <input type="checkbox"/></li> </ul> </li> <li>● Alternate Energy Sources <input type="checkbox"/> <ul style="list-style-type: none"> <li>○ Hydrogen as a Fuel for Future <input type="checkbox"/></li> <li>○ Hydrogen as an Alternative Energy Source <input type="checkbox"/></li> <li>○ Microbial Fuel Cell <input type="checkbox"/></li> </ul> </li> <li>● Energy Context with Respect to Indian Scenario <input type="checkbox"/></li> <li>● Energy Plantation <input type="checkbox"/></li> <li>● Energy crisis <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>● Process of iron and steel production <input type="checkbox"/></li> <li>● Location of iron and steel industry <input type="checkbox"/></li> <li>● Early localization <input type="checkbox"/></li> <li>● Distribution of iron and steel industry <input type="checkbox"/></li> <li>● Global steel production <input type="checkbox"/></li> <li>● International trade <input type="checkbox"/></li> <li>● Growth potential of the steel industry <input type="checkbox"/></li> <li>● Textile Industry <input type="checkbox"/></li> <li>● Cotton textile industry: Location of the industry <input type="checkbox"/></li> <li>● Recent trends in localization <input type="checkbox"/></li> <li>● Distribution and production of cotton textiles <input type="checkbox"/></li> <li>● Woollen textile industry: Location of the industry <input type="checkbox"/></li> <li>● Silk textile industry: Raw silk manufacture <input type="checkbox"/></li> <li>● Silk textile manufacturing <input type="checkbox"/></li> <li>● Synthetic (artificial) silk industry <input type="checkbox"/></li> <li>● Distribution of man-made fibre and fabrics <input type="checkbox"/></li> <li>● Engineering Industries <input type="checkbox"/></li> <li>● Machine tools and machines: Areas of production <input type="checkbox"/></li> <li>● Industrial machinery: Textile machinery <input type="checkbox"/></li> <li>● Other industrial machinery <input type="checkbox"/></li> <li>● Agricultural machinery <input type="checkbox"/></li> <li>● Manufacturing of transport equipment <input type="checkbox"/></li> <li>● Automobile industry <input type="checkbox"/></li> <li>● Railway car and locomotive industry <input type="checkbox"/></li> <li>● Shipbuilding Industry <input type="checkbox"/></li> <li>● Aircrafts industry <input type="checkbox"/></li> <li>● Chemical Industry <input type="checkbox"/></li> <li>● Classes of chemicals: Branches of chemical industry <input type="checkbox"/></li> <li>● Heavy chemical industry <input type="checkbox"/></li> <li>● Production of acids and alkalies <input type="checkbox"/></li> <li>● Rise of chemical industry <input type="checkbox"/></li> <li>● Fertilizer industry: Nitrogen fertilizers <input type="checkbox"/></li> <li>● Phosphate fertilizers <input type="checkbox"/></li> <li>● Potash fertilizers <input type="checkbox"/></li> <li>● Explosives <input type="checkbox"/></li> </ul>
<p><input type="checkbox"/> <b>Industry</b></p> <ul style="list-style-type: none"> <li>● Industrial development <input type="checkbox"/></li> <li>● Iron And Steel Industry <input type="checkbox"/></li> </ul>	

- Glass industry: Production of glass
- Agro-industries
- Synthetic rubber industry
- Pulp and paper industry: Essential Conditions for pulp production
- Production of paper and paper board
- International trade
- Salient features of pulp and paper industry
- Cement industry
- Distribution of cement industry
- Recent trends: Main global competitors
- Petroleum refining industry: Localization
- Site selection of petroleum refineries
- History of oil refineries
- World pattern of oil refining
- Petroleum products
- Industrial Regions
- Characteristics of industrial regions
- Delimitation of an industrial region

- Principal industrial regions of the world
- Industrial regions of Anglo America
- Former USSR
- Eastern Asia—Japan, China, the 'Dragons', India, High tech patterns.

#### □ Transport and Communication

- Modes of Transportation 
  - Land Transport
  - Roads
  - Railways
  - Water Transport
  - Air Transport
  - Sea Routes
  - Shipping Canals
- Inland Waterways
- Pipelines
- Regional Rapid Transit System 1
- Odisha's coastal highway
- AERA Act amendment – Way to boost up Air transport

## CONTEMPORARY ISSUES

- Eleventh Agriculture Census (2021-22)
- Issues Related To Agriculture Produce Market Committee (APMC)
- New White Revolution: Need, Scope & Challenges
- The Western Indian Ocean Region and The Coordinated Fight Against Pollution
- Geopolitics of Natural Resources: Spatial Analysis
- Depletion of Natural Resources versus Economic Growth
- Renewable Energy and Women Empowerment
- Does Access to Energy Causes Human Development
- Potential of nuclear energy to reduce CO2 Emissions
- The Indian automotive industry: From resilience to resurgence?
- Role of Industrial Development in minimizing regional inequalities
- Impact of 4th Industrial Revolution on Global Manufacturing Sector
- Demographic Transition: Contemporary look at the model
- Demographic Window of Opportunities
- Astropolitics : Its growing significance
- Impact of Rural-Urban Migration on the resources at the source and destination region.
- Global Population Ageing - Causes & Consequences
- Time to prepare to forecast and try to manage globally disruptive volcanic eruptions

- Climate change & impact on the structure of Earth's atmosphere
- Impact of marine heatwaves in Indian Ocean on India's monsoon patterns
- National Inter-linking of rivers & Issues associated with it
- Evergreen Revolution for Sustainable Livelihood
- Earth's inner core may have started to spin in opposite direction
- Psyche mission of NASA
- Turkey Earthquake: Satellite Images Show Over 300-km-long Crack in Earth's Surface
- Sudden Stratospheric Warming and Polar Vortex
- Increased sea surface temperature affecting Indian monsoon: Study
- More Frequent European Heat Waves Linked to Changes in Jet Stream
- Polar Masses and their influence on regional climate
- Salient features of the cyclonic disturbances over the North Indian Ocean during 2022
- Fewer cyclones in the Bay of Bengal but frequency increased in the Arabian Sea
- CLIMATE CHANGE: The Collapse of a Major Atlantic Current Would Cause Worldwide Disasters
- The Effect of Ocean Salinity on Climate and Its Implications for Earth's Habitability
- Impact of IOD on Indian southwest monsoon
- The Arctic and Antarctic saw record warmth and ice melt in 2022
- Mission critical: How Africa can profit from its mineral boom.
- Indus Waters Treaty: Demands for its renewal are not new, but what has changed now?
- El Nino and La Nina effect: Impact on weather pattern of the World
- 15-Minute Cities and its significance in Urban Air Pollution
- Indian blue economy is thriving but country needs to be careful about marine litter
- Enhanced phytoplankton bloom triggered by atmospheric high-pressure systems over the Northern Arabian Sea
- Black soil in red: Climate change threatens world's food basket
- Palm oil in India: Rapid growth and competing health claims
- Why India doesn't need palm oil but its greener alternatives
- Wheat ban by India
- Climate Change Is Affecting Tea Farming In India And How Carbon Credit Markets Can Be A Solution
- Sugar industry will soon transform into the energy sector
- Combating desertification in India
- Save Himalayan ecology: Learnings from Turkey-Syria quake & Joshimath crisis
- Zero coal import remains elusive as Centre leans on foreign supplies again
- India to be the highest populated country in the world: Prospects and Issues
- Himalayan fault lines and seismic gaps



# INDIAN SOCIETY

## INDIAN SOCIETY

### □ Salient features of Indian society

- Features of Indian society
- Changes within Indian society and their repercussions
- Causes of changes
- Indian Society today

### □ Diversity of India

- What is diversity?
- Types of diversities in India
- Can diversity be equated with difference?
- The unity in diversity- a reality or a chimera
- Manner of reconciliation

### □ Role of women's organizations

- Women's organizations in Indian history
- Types of women's organizations
- Level of penetration
- Problems faced by women's organizations
- Is a larger vocal role possible and ways to achieve the same
- Role of SHGs, Micro finance Institutions

### □ Poverty and Development Issues

- Poverty
- Concept of development
- Sen vs Bhagwati model
- Crisis of development
- Certain case studies

- Government's initiatives and the five year plans
- Role of civil society organizations

### □ Effects of globalization on Indian society

- What is the meaning of globalization
- Kinds of impact of globalization – economic, political, developmental and socio-cultural
- Is the impact solely positive or negative

### □ Social empowerment

- Meaning and concept of social empowerment
- Why do we need social empowerment?
- Social empowerment through the five year plans
- Government's initiatives for empowerment
- Empowerment in reality and India's experience
- Other approaches/players/tools for social empowerment and some case studies on the same

### □ Communalism

- Meaning and concept of communalism
- Historicity of communalism
- Recent incidents
- Role of third parties in inciting/perpetrating communalism
- Communalism under the law
- Can communalism eradicated from the Indian society completely

□ **Secularism**

- Meaning and concept of secularism
- Secularism through the vantage point of Indian Constitution
- Comparisons of models Indian & Western
- Gandhiji on religion
- Indian philosophy on secularism
- Threats on the secular spirit
- Is the Indian democracy mature enough to handle the gravity of secularism

□ **Regionalism**

- Meaning and concept of regionalism
- Theories on regionalism
- Regionalism in its various manifestations
- Role of various players
- Recent incidents causing a wave of flurry
- Possible ways to tackle the same

**CONTEMPORARY ISSUES**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• Need for reclassification of disadvantaged social groups</li> <li>• Contemporary challenges to pluralism</li> <li>• Impact of situational exigencies on social institutions</li> <li>• Change orientation v/s Status quoism</li> <li>• Caste as enabler – Caste as an obstacle</li> <li>• Policy blindspot</li> <li>• Multidimensional analysis of emerging religious dissent</li> <li>• Scrutinizing development indicators</li> <li>• Women in STEM</li> <li>• Fight against Untouchability</li> <li>• Increasing Cases of Gender based Violence in India</li> <li>• India’s Child Labour Problem</li> <li>• Deaths by Suicide in India-An Emerging Societal Issue</li> <li>• Lives of Indian Women Prisoners</li> </ul> | <ul style="list-style-type: none"> <li>• Political participation of women</li> <li>• Issues of migrant workers</li> <li>• The ‘questionable’ women’s right to property</li> <li>• Internet &amp; its access to women</li> <li>• Same-Sex Marriage</li> <li>• Casteism in India’s Society</li> <li>• Persistent Indian Challenges of Indian Society</li> <li>• Human Trafficking</li> <li>• Marital Rape</li> <li>• Overpopulation</li> <li>• Drug Abuse</li> <li>• Legal age for marriage (Educated women are likely to marry later )</li> <li>• Globalizatoin 4.0 and emerging technologies</li> <li>• Hybrid work model and women</li> <li>• Manual scavenging</li> </ul> |
|---|---|



# POLITY

## □ Historical Evolution & Features

- Importance of Constitution
- Historical evolution of the Constitution
- Constituent Assembly
- Objectives of the Constitution
- Salient features of Indian Constitution
- Unitary features
- Federal features
- Parliamentary form of government
- Presidential form of government
- Parliamentary vs. Presidential system of government

## □ Preamble

- Preamble
- Basic features
- Value premises of constitution
- Terminologies as: 
  - Democratic
  - Sovereign
  - Socialist
  - Secular
  - Republic
  - Justice
  - Equality
  - Liberty
  - Fraternity
  - Integrity
- Amendability of the Preamble

## □ Citizenship

- Basic constitutional features
- Methodology of getting citizenship

- Modes of Losing the Citizenship of India
- Concept of dual citizenship
- Citizenship provisions in J&K
- Special privileges enjoyed by citizens in India
- Overseas Citizens of India (OCI) and Persons of Indian Origin (PIOs)

## □ Fundamental Rights

- Significance of Fundamental Rights
- What is State?
- Right to Equality
- Right to Freedom
- Right against Exploitation
- Right to Freedom of Religion
- Cultural and Educational Rights
- Right to Constitutional Remedies
- Fundamental Rights and Armed Forces
- Martial Law & Fundamental Rights
- Difference between procedure established by law and due process of law
- Writs and their uses
- Restrictive limitations on fundamental rights
- Rights outside Part III of the Constitution
- Dynamic Nature of Article 32
- Need of Revitalizing Indian Reservation System

## □ DPSP

- Basic features
- Economic and Social DPSP
- Gandhian DPSP

<ul style="list-style-type: none"> <li>• Administrative DPSP <input type="checkbox"/></li> <li>• DPSP related to International Peace <input type="checkbox"/></li> <li>• Implementation of DPSP <input type="checkbox"/></li> <li>• Fundamental Rights and the Directive Principles of State Policy Controversy <input type="checkbox"/></li> <li>• Directives outside Part IV of the Constitution <input type="checkbox"/></li> <li>• Application of Uniform Civil Code in India <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>• Special provisions for states <input type="checkbox"/></li> <li>• Scheduled and Tribal Areas <input type="checkbox"/></li> </ul>
<p>□ <b>Fundamental Duties</b></p> <ul style="list-style-type: none"> <li>• Features <input type="checkbox"/></li> <li>• Link of Fundamental Rights and Fundamental Duties <input type="checkbox"/></li> </ul>	<p>□ <b>Functions and responsibilities of the Union and the States</b></p> <ul style="list-style-type: none"> <li>• Regulating functions of Government <input type="checkbox"/></li> <li>• Development functions of government <input type="checkbox"/></li> <li>• Service providing functions of government <input type="checkbox"/></li> <li>• Problems in implementation <input type="checkbox"/></li> <li>• Recommendations for improvement <input type="checkbox"/></li> <li>• Interrelationship between union, state and local government in implementation of roles <input type="checkbox"/></li> <li>• Constitutional provisions related to financial devolution <input type="checkbox"/></li> <li>• Issues of financial devolution <input type="checkbox"/></li> </ul>
<p>□ <b>Other Principles</b></p> <ul style="list-style-type: none"> <li>• Process of law making in India <input type="checkbox"/></li> <li>• Role of Constitutional and extra constitutional bodies in law making <input type="checkbox"/></li> <li>• Basic structure: How it evolves? <input type="checkbox"/></li> <li>• Different types of majorities required in Indian Constitution <input type="checkbox"/></li> <li>• DPSP v. Fundamental Rights <input type="checkbox"/></li> <li>• Doctrines &amp; Terminologies <input type="checkbox"/></li> </ul>	<p>□ <b>Issues and challenges pertaining to the federal structure</b></p> <ul style="list-style-type: none"> <li>• Administrative relations <input type="checkbox"/></li> <li>• Legislative relations <input type="checkbox"/></li> <li>• Financial relations <input type="checkbox"/></li> <li>• Emergency Provisions and Misuse of Article 356 <input type="checkbox"/></li> <li>• Inter-State relations <input type="checkbox"/></li> <li>• Issues related to Union List, State List &amp; Concurrent List <input type="checkbox"/></li> <li>• Issues related to appointment of Governor <input type="checkbox"/></li> <li>• Issues related to state formation <input type="checkbox"/></li> <li>• Poor devolution of finances <input type="checkbox"/></li> <li>• Reserving bill for Presidential approval <input type="checkbox"/></li> <li>• Central sponsored schemes and issues <input type="checkbox"/></li> <li>• Special package for different states <input type="checkbox"/></li> <li>• Issues between Centre and State after 1990 reforms <input type="checkbox"/></li> <li>• Foreign policy and Centre and State Relations <input type="checkbox"/></li> <li>• Inter-State border disputes <input type="checkbox"/></li> </ul>
<p>□ <b>Separation of Powers</b></p> <ul style="list-style-type: none"> <li>• Features in American and UK Constitution <input type="checkbox"/></li> <li>• Checks and balances provisions in Indian Constitution <input type="checkbox"/></li> <li>• Judicial Review <input type="checkbox"/></li> <li>• Concept of Separation of Powers <input type="checkbox"/></li> </ul>	<p>□ <b>The President</b></p> <ul style="list-style-type: none"> <li>• Importance of President <input type="checkbox"/></li> <li>• Qualification <input type="checkbox"/></li> </ul>
<p>□ <b>Comparison of the Indian constitutional scheme with that of other countries</b></p> <ul style="list-style-type: none"> <li>• It should cover comparison of USA, UK, India and neighbours <input type="checkbox"/></li> </ul>	
<p>□ <b>Union &amp; States</b></p> <ul style="list-style-type: none"> <li>• State Reorganization Commission (brief) <input type="checkbox"/></li> <li>• Components of Indian territory <input type="checkbox"/></li> <li>• Process of formation of new states <input type="checkbox"/></li> <li>• Zonal Councils <input type="checkbox"/></li> <li>• Union territories <input type="checkbox"/></li> </ul>	

• Election procedure	<input type="checkbox"/>	• Functions	<input type="checkbox"/>
• Advantages and disadvantages of single transferable form of voting	<input type="checkbox"/>	• Powers with respect to Parliament	<input type="checkbox"/>
• Presidents' Term of Office and emoluments	<input type="checkbox"/>	□ <b>Parliament</b>	
• Executive Powers	<input type="checkbox"/>	• Composition of Rajya Sabha	<input type="checkbox"/>
• Legislative Powers	<input type="checkbox"/>	• Composition of Lok Sabha	<input type="checkbox"/>
• Emergency Powers	<input type="checkbox"/>	• Qualification and disqualification of MPs and MLAs	<input type="checkbox"/>
• Financial Powers	<input type="checkbox"/>	• Vacation of seats	<input type="checkbox"/>
• Miscellaneous powers	<input type="checkbox"/>	• Sessions of Parliament	<input type="checkbox"/>
• Judicial powers	<input type="checkbox"/>	• Law making procedure	<input type="checkbox"/>
• Impeachment of President	<input type="checkbox"/>	• Officers of Parliament and State Legislature	<input type="checkbox"/>
• President as nominal head	<input type="checkbox"/>	• Parliament Proceedings	<input type="checkbox"/>
• Ordinance making power	<input type="checkbox"/>	• Motions and resolutions in Parliament	<input type="checkbox"/>
• Passage of bills	<input type="checkbox"/>	• Powers and Privileges	<input type="checkbox"/>
• Misuse of emergency provisions	<input type="checkbox"/>	• Financial proceedings	<input type="checkbox"/>
• Pardon power	<input type="checkbox"/>	• Comparison of Lok Sabha and Rajya Sabha	<input type="checkbox"/>
• Coalition government	<input type="checkbox"/>	• Women reservation in Parliament and issues	<input type="checkbox"/>
□ <b>Vice President</b>		• Lowering of Parliamentary powers	<input type="checkbox"/>
• Office of the Vice-President	<input type="checkbox"/>	• Parliamentary committees and their working	<input type="checkbox"/>
• Functions	<input type="checkbox"/>	• Judicial activism and Parliament	<input type="checkbox"/>
• Comparison between Indian VP and American VP	<input type="checkbox"/>	• Delegated legislation and issues	<input type="checkbox"/>
□ <b>Prime Minister</b>		□ <b>The Judiciary</b>	
• Appointment of PM	<input type="checkbox"/>	• Integrated judicial system	<input type="checkbox"/>
• Functions of PM	<input type="checkbox"/>	• Supreme Court	<input type="checkbox"/>
• Role of PM with respect	<input type="checkbox"/>	• Composition	<input type="checkbox"/>
• CoM	<input type="checkbox"/>	• Independence of Supreme Court	<input type="checkbox"/>
• President	<input type="checkbox"/>	• Jurisdiction of SC	<input type="checkbox"/>
• Lok Sabha	<input type="checkbox"/>	• Judicial Review	<input type="checkbox"/>
• Political Party	<input type="checkbox"/>	• High Court	<input type="checkbox"/>
• Coalition Government	<input type="checkbox"/>	• Composition	<input type="checkbox"/>
□ <b>Council of Ministers</b>		• Terms and removal	<input type="checkbox"/>
• Division of CoM	<input type="checkbox"/>	• Jurisdiction	<input type="checkbox"/>
• Role of CoM	<input type="checkbox"/>	• Other powers	<input type="checkbox"/>
• Role of Cabinet	<input type="checkbox"/>	• Lower judiciary	<input type="checkbox"/>
• Responsibilities of the Ministers	<input type="checkbox"/>	• Appointment	<input type="checkbox"/>
□ <b>Attorney General of India</b>		• Powers	<input type="checkbox"/>
• Qualification	<input type="checkbox"/>	• Tribunal & Subordinate Courts	<input type="checkbox"/>

<ul style="list-style-type: none"> <li>• The role of the Supreme Court of India as guardian of the Constitution and protector of Fundamental Rights <input type="checkbox"/></li> <li>• Judicial Review <input type="checkbox"/></li> <li>• PIL <input type="checkbox"/></li> <li>• Judicial Activism <input type="checkbox"/></li> <li>• Judiciary appointment <input type="checkbox"/></li> <li>• Collegiums System <input type="checkbox"/></li> <li>• NJAC Controversy <input type="checkbox"/></li> <li>• National Court of Appeal <input type="checkbox"/></li> <li>• Judicial Accountability <input type="checkbox"/></li> <li>• Issues of corruption in judiciary <input type="checkbox"/></li> <li>• Role of Women in Judiciary <input type="checkbox"/></li> <li>• Need for Virtual Courts <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>• Need of Dispute redressal mechanisms <input type="checkbox"/></li> <li>• Administrative tribunal and issues <input type="checkbox"/></li> <li>• Fast Track Courts and issues <input type="checkbox"/></li> <li>• Gram Nyayalayas and issues <input type="checkbox"/></li> <li>• Parivarik Mahila Lok Adalats and issues <input type="checkbox"/></li> <li>• Family Courts and issues <input type="checkbox"/></li> <li>• Lok Adalat and issues <input type="checkbox"/></li> <li>• NALSA and issues <input type="checkbox"/></li> <li>• Dispute redressal for Weaker section <input type="checkbox"/></li> <li>• Arbitration Mechanism <input type="checkbox"/></li> <li>• International Arbitrary Centre <input type="checkbox"/></li> <li>• Commercial Court <input type="checkbox"/></li> </ul>
<p>□ <b>Ministries and Departments of the Government</b></p> <ul style="list-style-type: none"> <li>• Functioning of Ministries <input type="checkbox"/></li> <li>• Central Secretariat <input type="checkbox"/></li> <li>• Cabinet Secretary <input type="checkbox"/></li> <li>• Field organizations <input type="checkbox"/></li> <li>• Reforms needed <input type="checkbox"/></li> <li>• International methodology <input type="checkbox"/></li> </ul>	<p>□ <b>Comptroller And Auditor-General Of India</b></p> <ul style="list-style-type: none"> <li>• Appointment <input type="checkbox"/></li> <li>• Functions <input type="checkbox"/></li> <li>• Role of CAG in good governance <input type="checkbox"/></li> </ul>
<p>□ <b>Local Government</b></p> <ul style="list-style-type: none"> <li>• Provisions of 73rd AA and 74th AA <input type="checkbox"/></li> <li>• Role and functions of different tiers <input type="checkbox"/></li> <li>• Municipal Corporations <input type="checkbox"/></li> <li>• Municipal Councils <input type="checkbox"/></li> <li>• Nagar Panchayats <input type="checkbox"/></li> <li>• The steps taken towards women's empowerment <input type="checkbox"/></li> <li>• Role of State Election commission <input type="checkbox"/></li> <li>• Role of State Finance Commission <input type="checkbox"/></li> <li>• Smart City Mission &amp; Municipal Governance <input type="checkbox"/></li> <li>• Model Panchayat Citizens Charter Framework <input type="checkbox"/></li> </ul>	<p>□ <b>The Governor</b></p> <ul style="list-style-type: none"> <li>• Appointment, term of office, qualification, etc. <input type="checkbox"/></li> <li>• Powers <input type="checkbox"/></li> <li>• Discretionary powers <input type="checkbox"/></li> <li>• Ordinance making power <input type="checkbox"/></li> <li>• Pardoning power of the Governor <input type="checkbox"/></li> </ul>
<p>□ <b>Dispute redressal mechanisms and institutions</b></p> <ul style="list-style-type: none"> <li>• What is Dispute redressal mechanisms? <input type="checkbox"/></li> </ul>	<p>□ <b>CM</b></p> <ul style="list-style-type: none"> <li>• Appointment <input type="checkbox"/></li> <li>• Powers and responsibilities <input type="checkbox"/></li> <li>• Relationship between the Governor and the Chief Minister <input type="checkbox"/></li> <li>• Relationship between CoM and the Chief Minister <input type="checkbox"/></li> </ul> <p>□ <b>The Advocate-General for the State</b></p> <ul style="list-style-type: none"> <li>• Appointment <input type="checkbox"/></li> <li>• Functions <input type="checkbox"/></li> </ul> <p>□ <b>State legislature</b></p> <ul style="list-style-type: none"> <li>• The composition of Vidhan Sabha and Vidhan Parishad <input type="checkbox"/></li> </ul>

<ul style="list-style-type: none"> <li>• Qualifications of the Members of Legislature <input type="checkbox"/></li> <li>• Powers and Functions of State Legislature <input type="checkbox"/></li> <li>• Relationship between both the Houses <input type="checkbox"/></li> <li>• Officers of State Legislature <input type="checkbox"/></li> <li>• Powers, Privileges and Immunities of State Legislatures and their Members <input type="checkbox"/></li> <li>• Legislative procedure <input type="checkbox"/></li> <li>• Governor's assent to Bills <input type="checkbox"/></li> <li>• Procedure in Financial Matters/ Budget <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>□ <b>Non-Constitutional Bodies</b> <ul style="list-style-type: none"> <li>• NITI Aayog <input type="checkbox"/></li> <li>• National and State Human Rights Commission <input type="checkbox"/></li> <li>• Central and State Information Commission <input type="checkbox"/></li> <li>• Central Vigilance Commission <input type="checkbox"/></li> <li>• Central Bureau of Investigation <input type="checkbox"/></li> <li>• Lokpal and Lokayukta <input type="checkbox"/></li> </ul> </li> <li>□ <b>Various Constitutional Dimensions</b> <ul style="list-style-type: none"> <li>• Co-operative Societies <input type="checkbox"/></li> <li>• Official Languages under the Indian Constitution <input type="checkbox"/></li> </ul> </li> <li>□ <b>Political Dynamics</b> <ul style="list-style-type: none"> <li>• Provisions related to Political Parties <input type="checkbox"/></li> <li>• Rise of Regional Parties in India <input type="checkbox"/></li> <li>• Election Laws and Electoral Reforms in India <input type="checkbox"/></li> <li>• Importance of NRI votes in Indian Election System <input type="checkbox"/></li> <li>• Tenth Schedule of the Indian Constitution <input type="checkbox"/></li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>□ <b>Constitutional Bodies</b> <ul style="list-style-type: none"> <li>• Election Commission <input type="checkbox"/></li> <li>• Union Public Service Commission <input type="checkbox"/></li> <li>• State Public Service Commission <input type="checkbox"/></li> <li>• Finance Commission <input type="checkbox"/></li> <li>• GST Council <input type="checkbox"/></li> <li>• National Commission for SCs and STs <input type="checkbox"/></li> <li>• Special Officer for Linguistic Minorities <input type="checkbox"/></li> <li>• Advocate General of State <input type="checkbox"/></li> </ul> </li> </ul>	

## CONTEMPORARY ISSUES

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• Constitutionalism - Critiques Interface between Constitution &amp; People</li> <li>• Dynamism in Rule of law</li> <li>• Identity Politics &amp; institutionalisation</li> <li>• Provisions to Deal with illegal migrants</li> <li>• Women in judiciary</li> <li>• Analysis on Criminalization of Marital Rape</li> <li>• Issues underlying India's reservation system</li> <li>• The balance between Fundamental Rights and Parliamentary Privileges</li> <li>• Facial recognition technology and right to privacy</li> <li>• Uniform Civil Code: Personal Laws versus Gender Justice</li> </ul> | <ul style="list-style-type: none"> <li>• The debate over DPSP and Freebies</li> <li>• People versus Parliament: Creator-creation conundrum</li> <li>• Under-trials in India: Convicted before conviction</li> <li>• Misuse of Discretionary powers by Governors</li> <li>• Turbulence in Relationship between Governor and Chief Minister</li> <li>• Giving more financial independence to Local Governments: Need and Feasibility</li> <li>• Effectiveness of People's Plan Campaign</li> <li>• Impact of Women in Local Bodies</li> <li>• Application of Federalism in Judiciary</li> <li>• Reforms in Policing administration in India</li> </ul> |
|---|--|

- Lacunas in Parliamentary functioning in India
- Right to vote for under trials and civil prisoners
- Governor's role and recurring controversy
- Constitutionality of First Constitution Amendment Act
- How Welfare State V/s Freebies is a dilemma for political parties?
- Custodial violence
- Judicial Appointment & Issues
- Increase in Death penalty by trial courts
- SC on aldermen's right to vote
- Increasing border disputes among states
- Weaponising the defamation law
- Investigation agencies and their misuse
- Judicial Accountability
- Election commission reform and SC Ruling
- Mayor & associated issues
- Parliamentary privileges
- Debate around committee of parliament
- Role of 'indigenous language' in education



# GOVERNANCE & SOCIAL JUSTICE

## GOVERNANCE

### □ Need and importance of Government Policies

- Growth and development
- Human development and human capital formation
- Equality (interpersonal and interregional) and social justice
- Unity and integrity
- Trust between state and citizens
- Governance: Meaning and Scope
- Good Governance
- Contemporary debate around Governance and Good Governance
- Governance and emerging areas (4th Industrial revolution and related technologies, gender issues, Ethical Governance, Environmental Governance)

### □ Effective Implementation

- What is effective implementation? Best outcomes in view of given time, resources and constraints
- Outcome orientation in implementation
- Programme impact assessment
- Analysis of different important schemes

### □ Government intervention

- Good Governance-Role of institutions, bureaucrats and other stakeholders
- Transparency and accountability
- Optimum use of resources - Right targeting, plugging leakages and wasteful expenditure, use of available knowledge, research and innovation.

- Monitoring and evaluation - Outcome
- Budget, zero base budgeting, input-output analysis, cost-benefit analysis
- Setting up institutions and regulatory norms task forces, steering committees and review committees.
- Interventions in emerging areas -
- Social Media, Data, Privacy, Social Sector

### □ Development Process & Industry

- Difference between Growth and Development
- Main Constraints of development
- Main Stake holders in development process
- Self Help Groups 
  - Meaning
  - Importance
  - Objectives
  - Institutional Structure and organization
  - Funding
  - SHGs and Women Development
  - Women Development and Women in Development dynamics
  - SHGs and poverty
  - SHGs and Rural Development
- Micro Finance 
  - Meaning and importance
  - Objectives

<ul style="list-style-type: none"> <li>◦ Structure and Organization <input type="checkbox"/></li> <li>◦ Advantages <input type="checkbox"/></li> <li>◦ Micro Finance in India <input type="checkbox"/></li> <li>● Non-Government Organizations <input type="checkbox"/></li> <li>◦ What are NGOs? <input type="checkbox"/></li> <li>◦ Difference between Non-Government Organizations (NGOs) and International Non-Government Organizations (INGOs) <input type="checkbox"/></li> <li>◦ United Nations Criteria for INGO and NGO <input type="checkbox"/></li> <li>◦ NGOs and development projects <input type="checkbox"/></li> <li>◦ NGOs and Community development <input type="checkbox"/></li> <li>◦ NGOs involved in relief and rehabilitation <input type="checkbox"/></li> <li>◦ NGOs involved in disaster management <input type="checkbox"/></li> <li>◦ NGOs and advocacy <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>◻ <b>e-Governance</b> <ul style="list-style-type: none"> <li>● Introduction <input type="checkbox"/></li> <li>● Applications <input type="checkbox"/></li> <li>● Models <input type="checkbox"/></li> <li>● Successes <input type="checkbox"/></li> <li>● Limitations <input type="checkbox"/></li> <li>● Future prospects <input type="checkbox"/></li> <li>● Dashboards and Portals of E-governance and E-government - Uses/Impact/Analysis <input type="checkbox"/></li> <li>● Democracy and E-governance <input type="checkbox"/></li> <li>● E governance and Judiciary <input type="checkbox"/></li> <li>● E governance and Legislatures <input type="checkbox"/></li> </ul> </li> <li>◻ <b>Citizens Charters</b> <ul style="list-style-type: none"> <li>● Citizens Charters <input type="checkbox"/></li> <li>● Introduction <input type="checkbox"/></li> <li>● Models <input type="checkbox"/></li> <li>● Features <input type="checkbox"/></li> <li>● CC in India <input type="checkbox"/></li> <li>● Issues in CC implementation <input type="checkbox"/></li> <li>● Reform needed <input type="checkbox"/></li> <li>● Sevottam Framework <input type="checkbox"/></li> <li>● Citizens and Citizens Charters <input type="checkbox"/></li> </ul> </li> <li>◻ <b>Role of civil services in a democracy</b> <ul style="list-style-type: none"> <li>● Concept of civil services <input type="checkbox"/></li> <li>● Need for civil services <input type="checkbox"/></li> <li>● Different role of civil services <input type="checkbox"/></li> <li>● Law making <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Policy formulation <input type="checkbox"/></li> <li>◦ Policy implementation <input type="checkbox"/></li> <li>◦ Policy evaluation <input type="checkbox"/></li> </ul> </li> <li>● Civil services as protector of democracy <input type="checkbox"/></li> <li>● To protect minorities (religious and linguistic) <input type="checkbox"/></li> <li>● To promote Inclusive and sustainable growth <input type="checkbox"/></li> <li>● Civil Services – Democracy dynamics <input type="checkbox"/></li> <li>● Civil Services in eras- Post <input type="checkbox"/></li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>◻ <b>Important aspects of governance, transparency and accountability</b> <ul style="list-style-type: none"> <li>● Citizen centric governance <input type="checkbox"/></li> <li>● Features of good governance <input type="checkbox"/></li> <li>● Legislative accountability <input type="checkbox"/></li> <li>● Administrative accountability <input type="checkbox"/></li> <li>● Judicial accountability <input type="checkbox"/></li> <li>● Ombudsman <input type="checkbox"/></li> <li>● Whistleblowers concept <input type="checkbox"/></li> <li>● Anti corruption machinery <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Role of citizens <input type="checkbox"/></li> <li>◦ Role of media <input type="checkbox"/></li> <li>◦ Social audit <input type="checkbox"/></li> </ul> </li> <li>● Systematic reforms <input type="checkbox"/></li> <li>● Social Media and Accountability/ Transparency/Governance <input type="checkbox"/></li> <li>● Decentralisation <input type="checkbox"/></li> <li>● Delegation <input type="checkbox"/></li> <li>● Delegation vs decentralisation <input type="checkbox"/></li> <li>● Bottom-up governance <input type="checkbox"/></li> </ul> </li> </ul>	

<p>independence/ Post-LPG/in 21st century</p> <ul style="list-style-type: none"> <li>• Emerging challenges for Civil Services <input type="checkbox"/></li> <li>• Reforms - Lateral Entry <input type="checkbox"/></li> <li>• Capacity building of Civil Services (Past to Present) Autonomy <input type="checkbox"/></li> <li>• Frequent transfers and security of tenure - concept/benefits/ analysis <input type="checkbox"/></li> <li>• Cadre Policy <input type="checkbox"/></li> <li>• Performance Appraisal and HR policies for Civil Services <input type="checkbox"/></li> <li>• Civil Services Board <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>• Functions and responsibilities of UPSC <input type="checkbox"/></li> <li>• Powers and privileges of UPSC (provided by Constitution and different Acts of Parliament.) <input type="checkbox"/></li> <li>• Appointment to Finance commission (procedure of appointment) <input type="checkbox"/></li> <li>• Composition of Finance Commission <input type="checkbox"/></li> <li>• Functions and responsibilities of Finance Commission <input type="checkbox"/></li> <li>• Powers and privileges of Finance Commission (provided by Constitution and different Acts of Parliament.) <input type="checkbox"/></li> <li>• National Commission for SCs and STs. <input type="checkbox"/></li> <li>• Other bodies - NGT, NHRC etc. <input type="checkbox"/></li> <li>• Evaluation of Each body: History/ Evolution/ Pros/Cons/Issues/ Challenges/Way Forward <input type="checkbox"/></li> </ul>
<p>□ <b>Pressure groups and formal/informal asso-ciations and their role in the Polity</b></p> <ul style="list-style-type: none"> <li>• What are pressure groups? <input type="checkbox"/></li> <li>• Types <input type="checkbox"/></li> <li>• The significance of pressure groups in India <input type="checkbox"/></li> <li>• Differentiate between a pressure group and a political party <input type="checkbox"/></li> <li>• Evaluation of pressure groups role <input type="checkbox"/></li> <li>• Pressure groups and new media <input type="checkbox"/></li> <li>• Politicisation of Pressure Groups <input type="checkbox"/></li> <li>• Role of pressure groups in governance <input type="checkbox"/></li> <li>• Issues, pros, cons, challenges for Pressure Groups <input type="checkbox"/></li> </ul>	<p>□ <b>Statutory, Regulatory and various Quasi-Judicial Bodies</b></p> <ul style="list-style-type: none"> <li>• SEBI <input type="checkbox"/></li> <li>• CVC <input type="checkbox"/></li> <li>• CBI <input type="checkbox"/></li> <li>• Planning Commission <input type="checkbox"/></li> <li>• NDC <input type="checkbox"/></li> <li>• PMO <input type="checkbox"/></li> <li>• Zonal Council <input type="checkbox"/></li> <li>• TRAI <input type="checkbox"/></li> <li>• NCLAT <input type="checkbox"/></li> <li>• IRDA <input type="checkbox"/></li> <li>• National Human Rights Commission <input type="checkbox"/></li> <li>• State Human Rights Commission <input type="checkbox"/></li> <li>• Central Information Commission <input type="checkbox"/></li> <li>• State Information Commission <input type="checkbox"/></li> <li>• National Consumer Disputes Redressal Commission <input type="checkbox"/></li> <li>• Tribunal <input type="checkbox"/></li> <li>• Medical Council of India <input type="checkbox"/></li> <li>• Pension Fund Regulatory and Development Authority <input type="checkbox"/></li> <li>• Biodiversity Authority of India <input type="checkbox"/></li> <li>• Press Council of India <input type="checkbox"/></li> <li>• Forward Markets Commission <input type="checkbox"/></li> <li>• Inland Waterways Authority of India <input type="checkbox"/></li> </ul>
<p>□ <b>Appointment to various Constitutional posts, powers, functions and responsibilities of various Constitutional Bodies</b></p> <ul style="list-style-type: none"> <li>• Appointment of CAG (procedure of appointment) - composition of CAG <input type="checkbox"/></li> <li>• Functions and responsibilities of CAG <input type="checkbox"/></li> <li>• Powers and privileges of CAG (provided by constitution and different ACTs of Parliament.) <input type="checkbox"/></li> <li>• Appointment of ECI (procedure of appointment) - composition of ECI <input type="checkbox"/></li> <li>• Functions and responsibilities of ECI <input type="checkbox"/></li> <li>• Powers and privileges of ECI (provided <input type="checkbox"/> by Constitution and different acts of Parliament)</li> <li>• Appointment to UPSC (procedure of appointment)- composition of UPSC <input type="checkbox"/></li> </ul>	

<ul style="list-style-type: none"> <li>• RBI <input type="checkbox"/></li> <li>• Evaluation of Each body: History/ Evolution/ Pros/Cons/Issues/ Challenges/Way Forward <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>issues (Disaster Management, Technology) <input type="checkbox"/></li> <li>• Localism <input type="checkbox"/></li> <li>• Neo-Localism <input type="checkbox"/></li> <li>• Subsidiarity <input type="checkbox"/></li> </ul>
<p><b>□ Elections in India</b></p> <ul style="list-style-type: none"> <li>• Salient features of the Representation of People Act, 1950 <input type="checkbox"/></li> <li>• Salient features of Representation of Peoples Act, 1951 <input type="checkbox"/></li> <li>• Electoral reforms <input type="checkbox"/></li> <li>• Criminalization of politics <input type="checkbox"/></li> <li>• Negative or neutral voting <input type="checkbox"/></li> <li>• State funding of Elections <input type="checkbox"/></li> <li>• Irregularities in polling <input type="checkbox"/></li> <li>• Electoral Bonds <input type="checkbox"/></li> </ul>	<p><b>□ Vulnerable Sections (issues/ challenges/ solutions/laws/ interventions)</b></p> <ul style="list-style-type: none"> <li>• SC <input type="checkbox"/></li> <li>• ST <input type="checkbox"/></li> <li>• OBC <input type="checkbox"/></li> <li>• Migrants <input type="checkbox"/></li> <li>• Women <input type="checkbox"/></li> <li>• Disabled <input type="checkbox"/></li> <li>• Children <input type="checkbox"/></li> <li>• Refugees <input type="checkbox"/></li> <li>• Transgenders <input type="checkbox"/></li> <li>• LGBT <input type="checkbox"/></li> <li>• Manual Scavengers <input type="checkbox"/></li> <li>• People with Special needs etc. <input type="checkbox"/></li> </ul>
<p><b>□ Political Parties in India</b></p> <ul style="list-style-type: none"> <li>• Political parties in India <input type="checkbox"/></li> <li>• Party reforms <input type="checkbox"/></li> <li>• Problems in the working of parties <input type="checkbox"/></li> <li>• Casteism and politics <input type="checkbox"/></li> <li>• Reforms in Party system in India <input type="checkbox"/></li> <li>• Strengthening of Anti-defection measures <input type="checkbox"/></li> <li>• Coalition Governments and dynamics <input type="checkbox"/></li> </ul>	<p><b>□ Poverty, Hunger and Health (Evaluation/ issues/challenges/ solutions/committees/ commissions/ Programs/ institutions/ international comparisons)</b></p> <ul style="list-style-type: none"> <li>• Poverty <input type="checkbox"/></li> <li>• Hunger <input type="checkbox"/></li> <li>• Health <input type="checkbox"/></li> <li>• Malnutrition <input type="checkbox"/></li> <li>• Unemployment <input type="checkbox"/></li> <li>• Distress Migration <input type="checkbox"/></li> <li>• Schemes - MGNREGA, PM POSHAN, Ayushman Bharat etc <input type="checkbox"/></li> <li>• Policies - NHP, NEP etc. <input type="checkbox"/></li> </ul>
<p><b>□ Role of Pressure Groups</b></p> <ul style="list-style-type: none"> <li>• Types of pressure groups <input type="checkbox"/></li> <li>• Role of pressure group in developing countries <input type="checkbox"/></li> <li>• Functions of pressure groups in India <input type="checkbox"/></li> <li>• Pressure groups methods <input type="checkbox"/></li> <li>• Pressure groups and Democracy <input type="checkbox"/></li> <li>• Criticism of pressure groups <input type="checkbox"/></li> </ul>	<p><b>□ Miscellaneous</b></p> <ul style="list-style-type: none"> <li>• 'Concern about democracy in the digital age' <input type="checkbox"/></li> <li>• Indices and Rankings – Domestic and International (e.g. Global Hunger Index, <input type="checkbox"/></li> </ul>
<p><b>□ Local Government and Governance</b></p> <ul style="list-style-type: none"> <li>• Issues of Funds, Functions and Functionaries. <input type="checkbox"/></li> <li>• Local Government and Vulnerable Sections (SC/ST/OBC/Women/ Transgenders/Migrants/Children/ Disabled etc.) <input type="checkbox"/></li> <li>• Local Government and emerging <input type="checkbox"/></li> </ul>	

NITI Aayog's, NIRF etc.)

- Reports - Domestic/international/governmental/Independent
- Internet shutdowns
- Committees and Commissions (Findings/recommendations/ Analysis)
- Co-operatives
- MSME
- One nation one ration card/One district one product
- Aspirational districts
- Sustainable Development Goals and India
- Entitlement portability
- Fake news, Hate speech
- Recent interventions (e.g. Laws - Privacy/Crypto currency/Uniform Civil Code/ Termination of Pregnancy etc.
- IT rules - regulating the OTT and Digital Media
- Missions (Jal Jeevan mission/Gati Shakti etc)

## SOCIAL JUSTICE

### □ Welfare schemes for vulnerable sections of the population by the Centre and States

- Constitutional arrangement
- Women welfare
- Gender technology gap
- Women in Indian Political System
- Issue of Marriageable Age for Women
- Child welfare
- SC/ST welfare
- OBC welfare
- Caste Census
- Gender reservation in ULB
- Minorities welfare
- Old age welfare
- Legislations Issues and Reforms needed

### □ Services relating to Health, Education, Human Resources

- Education structure in India
- Primary, secondary and higher education
- Initiatives taken by GOI in education
- Reforms needed
- Recommendations of committees
- Future prospects in education sector
- Skill development, indicators, indicators

- Private and Public health structure
- NITI Aayog Report
- Economic development and human development
- SDGs and India

### □ Issues relating to poverty and hunger

- Poverty definition by different committees
- Poverty data in India
- Causes of poverty
- Poverty and unemployment
- Poverty and social conflict
- Impact of LPG on poverty
- Linkage between poverty and development
- Rural poverty
- Urban poverty
- Feminization of poverty
- Poverty alleviation measures
- Problems in implementation of Poverty alleviation programmes
- Poverty and Hunger
- Food security programmes and issues
- Hunger and health
- Impact of hunger and poverty on economic development of the nation
- Controversy related to poverty data estimation

□ **The Scheduled and Tribal Areas**

- 5th Schedule Areas
- 6th Schedule Areas
- Composition of autonomous councils
- Role and functions of councils
- Role of Governor with respect to tribal areas
- Tribal sub plan
- Start-up and Skill Development

□ **Start Up India Scheme**

- Stand up India Scheme
- National Student Startup Policy
- National Skill Development Mission
- Pradhan Mantri Kaushal Vikas Yojana
- Deen Dayal Antyodaya Yojana
- Deen Dayal Upadhyaya Grameen Kaushalya Yojana
- Skill Development Initiative Scheme
- Self-Employment & Talent Utilisation (SETU)
- Atal Innovation Mission

□ **Vulnerable Sector**

- Social Security Scheme 
  - Atal Pension Yojana
  - Pradhan Mantri Jeevan Jyoti Bima Yojana
  - Pradhan Mantri Suraksha Bima Yojana
- Minorities 
  - Nai Roshni Scheme
  - USTAAD Scheme (Upgrading the Skills and Training in Traditional Arts/Crafts for Development)
  - Nai Manzil Scheme
- Women and Child Development 
  - Beti Bachao Beti Padhao
  - Sukanya Samridhi Yojana
  - Digital Gudda Guddi Board
  - Sabla
  - Ujjawala Scheme

- Janani Suraksha Yojana
- Janani Shishu Suraksha Karyakram
- SC/ST 
  - Vanbandhu Kalyan Yojana
  - Pradhan Mantri Adarsh Gram Yojana
  - Disability
  - Accessible India Campaign (Sugamya Bharat Abhiyan)

□ **Health**

- National Health Mission
- National Ayush Mission
- Swasthya Rakshan Program
- Jan Aushadhi Scheme
- Mission Indradhanush
- NFHS-5 survey

□ **Education**

- Padhe Bharat Badhe Bharat
- Mid Day Meal Scheme
- Ishan Uday
- GIAN (Global Initiative of Academic Networks)
- Rashtriya Avishkar Abhiyan
- SWAYAM (Study Webs of Active - Learning for Young Aspiring Minds)

□ **Rural & Urban Development**

- Sansad Adarsh Gram Yojana
- Gram Uday Se Bharat Uday Abhiyan
- Shyama Prasad Mukherjee Rurban Mission
- Deendayal Upadhyaya Gram Jyoti Yojana
- Pradhan Mantri Gram Sadak Yojana
- Swachch Bharat Abhiyan
- Pradhan Mantri Awas Yojana- Gramin
- Pradhan Mantri Awas Yojana - Urban
- Housing for all by 2022
- Smart Cities Mission
- Hriday - National Heritage City Development and Augmentation Yojana

- Amrut (Atal Mission for Rejuvenation and Urban Transformation)

#### □ Miscellaneous Schemes

- Jeevan Praman
- Digilocker
- Bharatnet Project (National Optical Fibre Network)
- INSPIRE (Innovation in Science Pursuit for Inspired Research)
- SAKAAR
- Digital India
- Namami Gange Project (Integrated Ganga Conservation Mission Project)
- Ganga Gram Yojana
- Jal Kranti Abhiyan
- Khelo India
- One Rank One Pension Scheme

- PRAGATI (Pro-Active Governance and Timely Implementation)

- Indian Community Welfare Fund (ICWF)

#### □ Inclusive growth

- Measurement criteria
- Government initiatives for inclusive growth
- Basic Amenities: Housing/Drinking Waters/Sanitations
- Sustainable Development
- Rural Development
- Rural development and poverty alleviation
- Review of the Existing Programmes
- Development Administration
- Panchayati Raj
- Agriculture and Rural Development

## CONTEMPORARY ISSUES

- Democracy in the digital age
- One nation Approach to Welfare and Service Delivery
- Evolution of Governance from Food, Shelter, clothing to Ease of Living
- Local Bodies and Disaster Management: bringing in bottom up Resilience
- SHGs -Cushioning to Rural Governance
- Regulating The Foreign Contribution and funding : A much needed safety valve
- Emerging Challenges to Sustainable Development and Road Ahead
- Transparent Taxation : From Tax terrorism to Tax compliance
- Public Accountability in present times
- Social Audit Law: Modern Means of enforcing Accountability
- Climate goals and Development: A search for "Win-Win" Solution.
- Online education and India: A stopgap or a revolution?
- Rebooting Mid-Day Meals in the post pandemic World
- Regulatory Bodies of 21st Century: Embracing Technology
- One Nation One Ration Card : A model for portability in Governance
- Startups and Governance: A roadmap for future
- Governance of future and 4th Industrial Revolution.
- Adding Digital layers for democratic governance
- Internal Democracy in Political Parties
- Era of Combative Federalism
- One Nation, One Election
- Religion and Conversions
- Open Prison for women
- Is the RTI Act fulfilling its purpose?
- Government to unveil National Data Governance Policy
- Punish to Reform: Rajasthan's Open Prison Model
- Transparency in OTT regulation
- Regulating online sale of drugs
- E-postal ballot for overseas Indian voters
- Section 144 of CrPC
- Hate Speech
- Mission Karmayogi civil service reform

- Sports governance
- Personal data protection bill
- Aspirational District/ block program
- Social Audit
- National policy and rare diseases
- Inter-Services Organizations Bill, 2023
- Understanding India's Mental Healthcare Act, 2017
- Marriage equality (same-sex marriage)
- Government notifies PMLA Amendment Rules, 2023
- Online Child Sexual Abuse in India
- Children's right to protect their genetic information
- The electoral bonds scheme and the challenges
- How the Climate Change and Cooperative Federalism are related to each other?



# INTERNATIONAL RELATIONS

## □ Evolution and Key Principles of Indian Foreign Policy

### ■ Indian Foreign Policy

- Determinants of India's Foreign Policy
- Factors determining India's Foreign Policy
- Non-Aligned Movement
- NAM 2.0
- Panchsheel
- India's Nuclear Doctrine
- Evolution of Neighbourhood Policy
- Look East Policy, Act East Policy
- Look West Policy, Act West Policy

### ■ Indian Diaspora

- Role played by Indian Diaspora
- Issue of safety of Indians abroad
- Schemes for Welfare of Overseas Indian

## □ Bilateral Relations

## □ India & Neighbours

### ■ India – Nepal Relations

- Background of Relation
- Cooperation between India & Nepal
- Contentions in relations between India & Nepal
- The Issue of Water and Hydropower Cooperation
- Recommendations to Improve Relations
- External Influences

### ■ India and Bhutan

- Economy: A Broad Overview

- India, Bhutan and China: Issues

### ■ Indo-Afghan Bilateral Relations

- A Long History of Bilateral Relations
- The India-Afghanistan Development Partnership
- Strategic factors undergirding India's Partnership with Afghanistan
- Afghanistan after NATO Withdrawal
- Options for India is Afghanistan
- Presence of Taliban

### ■ India-Bangladesh Relations

- Development Partnership
- India-Bangladesh Relations in line with 'Look East' policy
- Boundary Agreements
- Teesta River Dispute

### ■ India-Maldives Relations

- Geostrategic Importance of Maldives
- Development Cooperation
- Security Risks

### ■ India-Sri Lanka Relations

- Commercial Relations
- Developmental Cooperation
- Fishermen Issue

### ■ India-Myanmar Relations

- Relation through ages
- Recent change in policy
- China Role

### ■ Indo-Pak Relations

- Cooperation between India & Pakistan
- Major Crisis
- Water Dispute

<ul style="list-style-type: none"> <li>○ Issue of Terrorism and Proxy Wars <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>○ India-Kazakhstan <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li>■ <b>Indian–Russia</b></li> </ul>	<ul style="list-style-type: none"> <li>○ India Tajikistan <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li>○ Cooperation between India and Russia <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>○ China And Central Asia <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li>○ Strategic Cooperation <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>○ International North-South Transport Corridor <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li>○ Major Concerns <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>○ Shanghai Cooperation Organisation <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li>○ Russia–China Impact in India <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>■ <b>India-Mongolia</b></li> </ul>
<ul style="list-style-type: none"> <li>■ <b>Indo–China Relations</b></li> </ul>	<ul style="list-style-type: none"> <li>○ India-Mongolia Bilateral Cooperation <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li>○ Economic Relation <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>○ Deal on Uranium Supply <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li>○ China India Water Related Issue <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>■ <b>India–UAE</b></li> </ul>
<ul style="list-style-type: none"> <li>○ “String of Pearls Strategy” Chain Diamonds <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>○ Political and economic relation <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li>○ China’s Maritime Silk Route <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>○ Oil Economic Relation <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li>○ Implications for India <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>■ <b>India–Iran</b></li> </ul>
<ul style="list-style-type: none"> <li>○ Militarisation of Belt and Road Initiative (BRI) <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>○ Iran Nuclear Deal and India <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li>○ Confidence Building Measures (CBMs) <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>○ India–Iran Relations <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li>○ Boarder Disputes <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>○ US-Geopolitical and Geo-Economic Consideration in Iran <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li>○ South China Sea Dispute <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>■ <b>India–Israel</b></li> </ul>
<ul style="list-style-type: none"> <li>○ Main Disputes <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>○ Israel and Palestine Conflict <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li>○ Resources as a Driver of Competition <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>○ India–Israel Relations <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li>○ Attempts for Resolution <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>■ <b>India–Saudi Arabia</b></li> </ul>
<ul style="list-style-type: none"> <li>○ India and South China Dispute <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>○ Areas of Cooperation <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li>○ India and South China Dispute <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>○ Challenges in relations <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li>■ <b>Security Challenges in the Indian Ocean Region</b></li> </ul>	<ul style="list-style-type: none"> <li>■ <b>Asia-Pacific Region</b></li> </ul>
<ul style="list-style-type: none"> <li>○ The Pivot to Asia – US Policy Shift <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>○ Zones of Activity <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li>○ South China Sea- Issues of Mistrust <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>○ Regional Groupings <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li>○ Piracy off the Coast of Somalia <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>○ Geopolitics of Asia Pacific <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li>○ Neighbourhood Issues and Terrorism <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>■ <b>India-South East Asia</b></li> </ul>
<ul style="list-style-type: none"> <li>○ Energy Routes <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>○ Steps in Indo-ASEAN Relations <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li>○ Fisheries and Livelihood Issues <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>○ India-ASEAN Security Co-operation <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li>○ Environmental Security <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>■ <b>Indo-Japan Bilateral Relationship</b></li> </ul>
<ul style="list-style-type: none"> <li>○ Declaration of Indian Ocean as Zone of Peace <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>○ Economy Centric Relationship <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li>○ India and Asian Nations relations <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>○ Contemporary Perspective <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li>□ <b>India &amp; Asian Nations relations</b></li> </ul>	<ul style="list-style-type: none"> <li>■ <b>India–South Korea</b></li> </ul>
<ul style="list-style-type: none"> <li>■ <b>CIS Countries of Central Asia</b></li> </ul>	<ul style="list-style-type: none"> <li>○ India–South Korea Relations <input type="checkbox"/></li> </ul>
<ul style="list-style-type: none"> <li>○ India-Turkmenistan <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>○ Economic Partnership in Recent Years <input type="checkbox"/></li> </ul>

### ■ India–Vietnam

- Economic Cooperation
- Strategic Cooperation
- Geo-political Issues concerning India–Vietnam Energy Cooperation
- China’s Response
- India’s Response

## □ India & Other Nation

### ■ India and Africa

- Historical Connections
- Gandhi’s Role
- Nehru’s Role
- Strengthening of Ties
- South-South Engagement
- Current Dynamics
- Economic Cooperation
- Human resources development and capacity building
- Energy Cooperation
- Military Security Co-operation
- Trade Policy
- Afro-Indian Trade
- Indian investment in Africa
- African investment in India
- Development cooperation and assistance

### ■ India–Australia

- Immigration Issue and Indian Diaspora
- Economic Relationship
- Issue of Nuclear Cooperation

### ■ India–France

- Strategic Partnership
- Prime Minister’s Recent Visit to France

### ■ India–Germany

- Indian–Germany Economic Relations

### ■ India–United Kingdom

- India & UK Relations
- Brexit
- India & BREXIT

### ■ India–USA

- Area of Co-operation: Strategic Consultations
- Area of Co-operation: Counterterrorism and Internal Security
- Area of Co-operation: Trade and Economic
- Area of Co-operation: Energy and Climate Change
- Area of Co-operation: Science & Technology (S & T) and Space
- Area of Co-operation: People to People Ties
- Area of Co-operation: Defence Cooperation
- Intellectual Property Issues
- India and International Organisations
- Indo-Pacific Relations
- Quadrilateral Security Dialogue (QUAD)
- India and Generalised System of Preference (GSP)

## □ Multilateral Relations

### ■ The World Trade Organization

- Representation in the WTO and Economic Groupings
- How the WTO takes Decisions?
- The WTO Secretariat and Budget
- How Countries Join the WTO
- Assisting Developing and Transition Economies Specialized Help for Export Promotion
- The WTO’s Part in Global Economic Policy-making
- Nairobi Package
- WTO and protectionism
- WTO and IPR
- WTO reforms
- WTO and India
- WTO and Agriculture Issues of developing nations
- WTO and Free Trade Agreements (FTAs)

■ **International Monetary Fund**

- International Monetary Fund (IMF)
- IMF Reforms

■ **Nuclear Security**

- Nuclear Security Summit
- Threats of Nuclear Terrorism
- Missile Technology Control Regime (MTCR)
- Nuclear Suppliers Group (NSG)
- NSG Membership for India
- Nuclear Non-Proliferation Treaty (NPT)

■ **BRICS**

- Economic Environment in BRICS Countries
- BRICS-BIMSTEC
- BRICS & India

■ **BIMSTEC**

- BIMSTEC & India
- Convention on Mutual Legal Assistance in Criminal Matters

■ **IBSA**

- IBSA Potential
- Need for Revitalizing IBSA
- India's Policy Options
- Technological Collaboration

■ **SAARC**

- Prospects For SAARC
- Indo-Pak Conflict
- Problem of Resource Development

■ **India-ASEAN Economic Cooperation**

- Singapore
- Vietnam
- Indonesia

- India ASEAN FTA in Service

□ **Global Institutions**

- United Nations & its Bodies
- Structure of United Nations
- United Nations General Assembly (UNGA)
- United Nations Security Council (UNSC)
- India & UNSC
- Economic and Social Council
- International Court of Justice (ICJ)
- UN Specialised Agencies
- Food & Agriculture Organization (FAO)
- International Civil Aviation Organization (ICAO)
- International Labour Organization (ILO)
- International Maritime Organization (IMO)
- International Telecommunication Union (ITU)
- United Nations Educational, Scientific and Cultural Organization (UNESCO)
- International Fund for Agricultural Development (IFAD)
- World Health Organization (WHO) and Question over its Credibility
- World Meteorological Organisation (WMO)
- WIPO
- World Bank
- International Monetary Fund (IMF)

□ **Important Key Concepts**

- New World Order
- Dynamics of New World Order
- New Cold War?

**CONTEMPORARY ISSUES**

- Personality as factor in Indian Foreign Policy
- Economic Crises in Sri Lanka

- Limitations of Soft Power
- India, Russia and the new era of global politics

- Impact of China Plus One Strategy
- Harnessing New Opportunities in a World of Declining Multilateralism
- Minilateralism: Weighing the Prospects for Cooperation and Governance
- Blue Economy in the Indo-Pacific
- Southeast Asia: Importance in the US' Indo-Pacific strategy
- India and Geopolitics of Technology
- Intersecting Geo-economics and Geopolitics: Nord Stream 2 and Europe
- Blue Opportunities for Green Development of Pacific Island Countries
- Geopolitical implications of green hydrogen economy
- Prospects of Indian Diaspora in the politics abroad
- Rise in conflict & impact on globalization
- War Crimes and Rules of War
- Multilateralism-changing notion
- NATO and India's strategic autonomy:=
- Multilateralism-changing notion
- India's refugee policy
- India's G20 Presidency and Opportunities:
- Role of UNHCR
- India's Antarctic Bill, 2022:
- India's Soft Power and its limitations
- India's Africa Outlook
- FATF and Pakistan
- WHO's role in recent times
- Restructuring of Global Financial Institutions:
- India's role in changing world order
- Emerging Climate Diplomacy
- UN's High Seas Treaty



# ECONOMY

## BASIC ECONOMY

□ **Indian Economy and issues relating to planning**

- Indian Economy in Pre-independence Period
- Economy on Eve of Independence
- Challenges
- Features
- Post-Independence India
- Issues
- Agriculture and its development so far
- Industry
- Services
- Phases of Economic Development in India
- Nehruvian Socialist Economy
- Economic Reforms
- Planning
- Objectives
- Planning History
- Analysis of each plan
- Growth & Development 
  - Economic Growth in India: 
    - ◆ National Income Determination
    - ◆ GDP
    - ◆ GNP
    - ◆ NDP
    - ◆ NNP
    - ◆ Personal Income
  - Economic Growth versus Economic Development
  - Measures of Economic Development 
    - ◆ Rise in real per capita income

- ◆ Real gross national product
- ◆ Human development index
- ◆ GDP
- ◆ Gender-related development index
- ◆ Poverty index
- Economic and Social Development in India: Millennium Development Goals
- Sustainable Development Goals and India
- Employment

□ **Resource Mobilization**

- Types of resources: Physical capital and finance capital
- Need for resource mobilization - Police
- State and Democratic Welfare State
- Sources of resource mobilization: Public Sector and Private Sector
- Savings and investment over the five year plan
- Budgetary resources: Tax and Non tax
- Role of Public Debt in resource mobilization and effects: Market borrowing, loans, grants, etc.
- Role of fiscal and monetary policies in resource mobilization
- Role of foreign investment in resource mobilization, desirability and consequences
- Multilateral agencies and resource mobilization

□ **Inclusive growth and issues arising from it**

- Meaning and concept of Inclusion

- India's experience
- Social sector initiatives and inclusion process
- Ground reality and working of flagship schemes
- India's growth story in this context
- Rural economy based growth
- Need of Sustainable agriculture, food security and resilience for growth
- Public distribution schemes: Way to inclusive growth
- Financial inclusion as an instrument of inclusive growth
- Poverty Alleviation and Employment Generation as a strategy for inclusive growth
- Social sector development as an instrument for inclusive growth
- Public private partnership for inclusive growth
- Industrial Integration for inclusive growth
- Sectoral and regional diversification as a tool for inclusive growth
- Governmental Schemes and Policies for inclusive growth 
  - Pradhan Mantri Jan Dhan Yojana
  - MUDRA (Micro Units Development and Refinance Agency) Bank
  - Self Employment and Talent Utilization (SETU)
  - Skill India
  - Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA)
  - Kisan Card
  - Pradhan Mantri Krishi Sinchayee Yojana (PMKSY)
  - National Agriculture Market (NAM)
  - Pradhan Mantri Jeevan Jyoti Beema Yojana
  - Pradhan Mantri Jeevan Suraksha Yojana
  - Atal Pension Yojana
  - Digital India programme

## □ Government Budgeting

- Budget, Economic Survey
- Budget terminology
- Types of Budget
- Features of outcome budgeting
- Merger of Railway and General Budget
- Benefits of budgeting
- Flaws in budgeting process
- Budget analysis
- Subsidy

## □ Investment Models

- Need for Investment
- Sources of Investment
- Measures of Investment
- Capital and investment
- Factors affecting investment
- Classification of Investment
- Types of Investment Models
- Investment Models Followed by India 
  - Domestic Investment Models 
    - Public Investment Model
    - Private Investment Model
    - Public Private Participation Investment Model
  - Foreign Investment Models (FDI, FII, etc.)
- Role of State
- PPP (Public-Private Partnership)
- Savings and Investment Trends

## □ Fiscal policy

- Fiscal Policy in India
- Important Budgetary Terms and Fiscal Concept
- Government Revenues & Spending
- Deficits and its financing 
  - Revenue Deficit
  - Fiscal Deficit
  - Primary Deficit
- Balance Sheet

**□ Taxation**

- Taxation Meaning
- Principles of Taxation
- Objectives of Taxation
- Taxation for Mobilization of Resources
- Tax System in India
- Current Taxation Policy of India
- Subsidies
- Tax Reforms
- GST and its progress
- Retrospective Taxation in India

**□ Monetary policy in India**

- Instruments of Monetary Policy
- Monetary policy in pre-reform Era (1948–1991)
- Monetary Policy in Post-Reform Era (Since 1991)
- Urjit Patel Committee Report
- Monetary Policy Committee and Inflation Targeting

**□ Financial system**

- Indian Financial System – An Overview
- Components of Indian Financial System
- Financial Institutions 
  - Banking Institutions or Depository Institutions
  - Non-Banking Institutions or Non-Depository Institutions
  - Others: (Regulatory, Intermediates, Non Intermediates)
- Financial Assets (Call Money, Notice Money, Term Money, Treasury Bills, Certificate of Deposits, Commercial Paper Financial Services (Banking Services, Insurance Services, Investment Services, Foreign Exchange Services)
- Financial Markets (Capital Market, Money Market, Foreign Exchange Market, Credit Market)
- Indian financial market and Pandemic

**□ Banking**

- Banking in India: Definition, Structure and Functions

- Origin of Banking system
- Type of Banks in India 
  - Central Bank (Reserve Bank of India)
  - Cooperative Banks
  - Commercial Banks 
    - ◆ Public Sector Banks (State Bank of India)
    - ◆ Private Sector Bank (HDFC Bank)
    - ◆ Foreign Banks (CITI Bank)
  - Regional Rural Banks
  - Local Area Banks
  - Specialized Banks (SIDBI Bank, NABARD)
  - Small Finance Banks
  - Payments Banks (Airtel Payment Bank)
- Nationalization of Banks in India
- Banking Sector Reforms in India: Narasimhan Committee 1&2, Nachiket Mor Committee, P J Nayak Committee
- Development Finance Institutions: IFCI, ICICI, SIDBI, IDBI, UTI, LIC, GIC
- New Bank Licence Criteria
- Non-Banking Financial Company (NBFC)
- Financial Inclusion in India: Need and future; PMJDY; Payment Banks and Small Banks
- NPAs
- Bills related to Banking
- NEO BANK
- The emerging concept of Bad Banks
- Insurance sector of India
- Bank privatization
- Account Aggregator System
- Domestic systemically important banks (D-SIBs)

**□ Foreign Trade & International Organisations**

- International Trade
- Trade Policy
- India's Balance of Payments: 
  - Current Account

- Capital Account
- Goods and Services Account
- India's BOP Performance: 
  - Balance of Payment versus Balance of Trade
  - Current Account versus Capital Account
- Foreign Capital
- Impact of Globalization on Indian Economy
- FDI and FPI in India, External Commercial Borrowings
- Foreign Exchange Rate Determination in India

- Types of Exchange Rate
- Capital and Current Account Convertibility in India
- The Bretton Woods Twins: 
  - World Bank
  - International Monetary Fund
- World Bank Group
- World Trade Organisation (WTO) and India
- ADB, NDB, BRICS Bank, AIIB
- Bilateral, Regional and Global
- Groupings and Agreements involving India
- Important report and forecasts

## AGRICULTURE

### □ Role of Agriculture in Indian Economy

- Situation of Indian Agriculture
- Historical background and current status
- Cropping Patterns: Types of Cropping
- Systems: Mono-cropping; Crop Rotation; Sequential Cropping; Inter Cropping; Relay Cropping
- Issues related to direct and indirect farm subsidies and minimum support prices 
  - Farm Subsidies in India: Definition; Working; Need; Negative Impacts
  - Types of Farm Subsidies in Indian Agriculture: Irrigation and Power Subsidies; Fertilizer Subsidy; Seed Subsidy; Credit Subsidy
  - Government Intervention in Indian Agriculture
  - Minimum Support Prices in Indian Agriculture: MSP definition; Working; Issues; Drawbacks; Way Ahead; Buffer Stocks
  - Public Distribution System in India: Definition; Issues; Working; Needs; Disadvantages

- Targeted PDS in India, Antyodaya Anna Yojana (AAY), Alternative to the PDS, Direct Benefit Transfers, National Food Security Act

- Agriculture Marketing
- Major crops: Major cropping patterns in different parts of the country, different types of irrigation, transport and marketing of agricultural produce and issues and associated constraints; e-technology for farmers
- Conclusive Land Titling
- Biotech-KISAN Program

### □ Land resource

- Land-use
- Land capability classification
- Causes of Land Degradation
- Impact of Land Degradation
- Steps taken by GOI
- Sustainable Land Management

### □ Land Reforms

- Land ownership patterns under the British rule 
  - Zamindari System (Permanent settlement of Bengal)
  - Ryotwari System
  - Mahalwari System

<ul style="list-style-type: none"> <li>• Land reforms since independence <input type="checkbox"/></li> <li>• Objectives of land reforms in India <input type="checkbox"/></li> <li>• Progress of Land Reforms in India <input type="checkbox"/></li> <li>• Progress of Ceiling Legislation <input type="checkbox"/></li> <li>• NITI Aayog Report on Land Leasing <input type="checkbox"/></li> <li>• SVAMITVA (Survey of Villages and Mapping with Improved Technology in Village Areas) <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>• Farmers Service Societies (FSS) <input type="checkbox"/></li> </ul>
<p>□ <b>Agriculture Finance</b></p> <ul style="list-style-type: none"> <li>• Features of Agricultural Finance <input type="checkbox"/></li> <li>• Criteria for Agricultural Credit <input type="checkbox"/></li> <li>• Need for Agricultural Finance <input type="checkbox"/></li> <li>• Sources of Agricultural Finance <input type="checkbox"/></li> <li>• Problems of Agricultural Finance <input type="checkbox"/></li> <li>• Measures taken to improve credit flow to agriculture <input type="checkbox"/></li> <li>• Co-operative Credit Societies in India <input type="checkbox"/></li> <li>• Derivate Trade in Agriculture Commodities <input type="checkbox"/></li> </ul>	<p>□ <b>Crop Insurance in India</b></p> <ul style="list-style-type: none"> <li>• Historical Background <input type="checkbox"/></li> <li>• Issues Related to Crop Insurance <input type="checkbox"/></li> <li>• Pradhan Mantri Fasal Bima Yojana <input type="checkbox"/></li> <li>• Comparison with Earlier Crop Insurance Schemes <input type="checkbox"/></li> <li>• Challenges <input type="checkbox"/></li> </ul>
<p>□ <b>Important Schemes</b></p> <ul style="list-style-type: none"> <li>• Pradhan Mantri Kisan Maandhan Yojana <input type="checkbox"/></li> <li>• PM-Kisan Scheme Paramparagat Krishi Vikas Yojana (PKVY) <input type="checkbox"/></li> <li>• Pradhan Mantri Krishi Sinchai Yojana (PMKSY) <input type="checkbox"/></li> <li>• Rythu Bandhu Scheme <input type="checkbox"/></li> </ul>	<p>□ <b>Important Schemes</b></p> <ul style="list-style-type: none"> <li>• Pradhan Mantri Fasal Bima Yojana (PMFBY) <input type="checkbox"/></li> <li>• Kisan Credit Card (KCC) Scheme <input type="checkbox"/></li> <li>• Soil Health Card Scheme <input type="checkbox"/></li> <li>• National Mission for Sustainable Agriculture (NMSA) <input type="checkbox"/></li> </ul>
<p>□ <b>Agricultural Credit Institutions</b></p> <ul style="list-style-type: none"> <li>• Commercial Bank <input type="checkbox"/></li> <li>• Lead Bank Scheme <input type="checkbox"/></li> <li>• Multi Agency Approach <input type="checkbox"/></li> <li>• Regional Rural Banks <input type="checkbox"/></li> <li>• National Bank for Agriculture and Rural Development (NABARD) <input type="checkbox"/></li> <li>• Reserve Bank of India <input type="checkbox"/></li> <li>• Kisan Credit Card Scheme <input type="checkbox"/></li> <li>• Self Help Group (SHG) Bank Linkage Programme <input type="checkbox"/></li> <li>• Rural Infrastructure Development Fund (RIDF) <input type="checkbox"/></li> <li>• Government Policy For Agricultural Credit <input type="checkbox"/></li> </ul>	<p>□ <b>Agriculture Marketing</b></p> <ul style="list-style-type: none"> <li>• Process of Agricultural Marketing in India <input type="checkbox"/></li> <li>• Structure of Agricultural Marketing in India <input type="checkbox"/></li> <li>• Importance of Proper Agriculture Marketing <input type="checkbox"/></li> <li>• Government Measures to Improve Agricultural Marketing in India <input type="checkbox"/></li> <li>• Analysis of APMC Act <input type="checkbox"/></li> <li>• National Agriculture Market (e-NAM) <input type="checkbox"/></li> </ul>
	<p>□ <b>Subsidies</b></p> <ul style="list-style-type: none"> <li>• Subsidy in India <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Farm Subsidies <input type="checkbox"/></li> <li>◦ Fertiliser subsidies <input type="checkbox"/></li> <li>◦ Subsidy on power <input type="checkbox"/></li> <li>◦ Subsidy on irrigation <input type="checkbox"/></li> </ul> </li> <li>• Issues related to direct and indirect farm subsidies and minimum support prices <input type="checkbox"/></li> <li>• Objectives of subsidies <input type="checkbox"/></li> <li>• Transfer of resources from gainers from economic policies to losers from economic policies <input type="checkbox"/></li> <li>• Issues of buffer stocks and food security <input type="checkbox"/></li> <li>• Technology missions <input type="checkbox"/></li> </ul>

- Economics of animal-rearing
- Public Distribution System: Objectives, functioning, limitations, revamping, evolution from universal PDS to targeted PDS, Targeted PDS, a critical analysis of cost and benefit of PDS
- Buffer Stock policy and government's intervention in food market to keep prices under reasonable limits to help consumers
- Food Security bill, questions of resource mobilization for the FSB, criticism of the FSB
- Important questions on the future of subsidies

#### □ Agricultural Revolutions in India

- Green Revolution
- White Revolution – Operation Flood
- Yellow Revolution
- Blue Revolution
- Golden Fiber Revolution: Jute
- The future of Indian agriculture

- Data revolution in Indian agriculture
- Artificial Intelligence & Agriculture
- Social Security Schemes for Farmers

#### □ Food Processing

- Food processing and related industries: Scope and significance, location, upstream and downstream requirements, supply chain management.
- Processed Foods Scenario with respect to Specific Sectors
- Policy Initiatives
- Infrastructure Development in Food Processing Sector
- Issues in Food Processing Sector
- FDI Policy in Food Processing
- Notable Trends in the Indian Food Processing Sector
- Strategies Adopted in Budget
- New foreign and domestic investment
- Sector-specific government policies

## INDUSTRY

#### □ Industrial Policy and Industrial Development: Main Issues

- Mahalanobis strategy and India's industrial policy-Discussing Industrial policy resolution 1948 and 1956 critically 
  - New Economic Policy and Industrial policy under the policy of Liberalization
  - Privatization
  - Globalization
- Phases of Industrial development
- Effects of liberalization on the economy
- Changes in industrial policy and their effects on industrial growth
- Impact on Different Sectors of the Economy

#### □ 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
- Transformation of MSME sector and impact on India

## INFRASTRUCTURE

- Impact of Infrastructure-Economic Impacts, impact on social development, Environmental impacts
- Transport 
  - Ports 
    - ◆ Ocean transport routes
    - ◆ Inland waterways
    - ◆ Main regions of inland waterways
  - Roads 
    - ◆ Importance
    - ◆ Government push towards Road Infrastructure
    - ◆ National Infrastructure pipeline
    - ◆ Bharatmala Pariyojana
  - Airports 
    - ◆ Air routes & Significance
    - ◆ Factors influencing air transport
  - Railways 
    - ◆ Railways: Factors affecting the railroads
    - ◆ Distribution of railroads in the world
  - Energy (Pipeline) 
    - ◆ Energy Pipeline Transport
    - ◆ Petroleum (oil) Pipelines
    - ◆ Gas Pipelines
- Importance and development of transport
- Means of transport
- Transport costs and economic distance
- Operating costs in transport
- Government's transport policy
- Transport patterns in the world
- Transport costs and specialization
- Transport and trade in the modern era
- Transport costs and scale economies

- Falling transport costs increase trade between neighbours
- Falling transport costs lead to concentration within countries
- Negative externalities of transport
- Important issues
- Ownership and financing
- Pricing of Public utilities
- Infrastructure as avenues for investment
- Project delays-reasons and measures to overcome Public Private Partnership and related issues
- Operation and Maintenance of roads, railways, irrigation and power projects - Main problems and solutions

### □ Important Schemes

- PM Gati Shakti National Master Plan
- Mega Investment Textiles Parks (MITRA) Scheme
- National Bank for Financing Infrastructure and Development (NaBFID) to fund infrastructure projects in India
- National Industrial Corridor Development Programme (NICDP)

### □ Recent Development

- Pulses for Food Security and Sustainable Future
- General Insurance Amendment Bill
- Pandora's papers
- National Urban Digital Mission
- 'One District One Product: A Potential Game changer'
- Proposition 22: The Future of the Gig Economy
- Central Bank Digital Currency

- |  |                          |  |                          |
|--|--------------------------|--|--------------------------|
| • Virtual Currencies   | <input type="checkbox"/> | • World Inequality Report                                  | <input type="checkbox"/> |
| • Taxing Virtual Currencies                                  | <input type="checkbox"/> | • India's telecom sector and issues                        | <input type="checkbox"/> |
| • G-SAP 1.0: Securities acquisition plan to boost the market | <input type="checkbox"/> | • Shifting towards Green Energy                            | <input type="checkbox"/> |
| • G7 Corporate Tax Deal                                      | <input type="checkbox"/> | • Gig Economy and India                                    | <input type="checkbox"/> |
| • Major reforms in Natural Gas Marketing                     | <input type="checkbox"/> | • The State of Food and Agriculture 2021                   | <input type="checkbox"/> |
| • National Monetisation Pipeline                             | <input type="checkbox"/> | • Fertiliser Shortage in India                             | <input type="checkbox"/> |
| • National Mission on Edible Oil                             | <input type="checkbox"/> | • World Employment and Social Outlook – Trends 2022 report | <input type="checkbox"/> |
| • Zero defect zero effect scheme                             | <input type="checkbox"/> | • e-Gram Swaraj e-Financial Management System              | <input type="checkbox"/> |
| • World Hunger Index 2021                                    | <input type="checkbox"/> |  |                          |

## CONTEMPORARY ISSUES

- |  |   |
|--|---|
| • GST Analysis   | • Short selling of share  |
| • Issues with Offshore Investments   | • Carbon Tax  |
| • Credit Rating Agencies and their Implications  | • Bank failure in US  |
| • Fiscal Federalism in India and GST provisions  | • DBT and Financial Inclusion   |
| • Issue with Banking System  | • RBI's digital currency: Potential and Challenges                    |
| • Issues related to mobilization of capital  | • The 'serious' situation of hunger in India                          |
| • Effectiveness of Monetary Policy Committee in high fiscal deficit situation                                  | • Innovation and India (Global Innovation index, 2022)                |
| • Lessons on NPA from Global Banks   | • India's Energy Security   |
| • Government schemes for Industry  | • Rupees depreciation   |
| • Need for reforms in Market infrastructure Institutions   | • Banking System liquidity & its 'deficit mode'                       |
| • Renewable Energy Sector: goals related deadlines   | • Impact of the Russia-Ukraine Conflict on the Indian Economy         |
| • Financing of Infrastructure in India: Issues, Challenges and Government Steps                                | • Freebies & their economic viability                                 |
| • Transitioning to a Sustainable Energy Ecosystems   | • India & its race to be in the list of largest Economies             |
| • Global Value Chains: Significance for India & its Concerns   | • Hyper-lapse consumerism   |
| • Rising New Form of Protectionism   | • Assessing Indian Economic progress since Independence               |
| • How is India's exchange rate related to its current account deficit, forex reserves and balance of Payments. | • Required reform in indirect taxation (GST 2.0)                      |
| • India's Employment Scenario  | • Significance of Semiconducting Devices in Indian Economy            |
| • Online Gaming Sector   | • India's Fertiliser sector: India as a global organic fertilizer hub |
| • The Insolvency and Bankruptcy Code   | • Universal basic Income  |
|  | • Reforms in India's Agriculture                                      |

- India and the problem of bad loans
- Credit challenges: On credit flow and all-around capital spending RBI proposed a forward-looking approach for loan losses
- Digital crop survey in India
- Centre to give incentive for banks to promote digital payments
- The International Year of Millets: how India's govt can promote the cereals in 2023
- Economic Survey 2022- 23
- Primary Agricultural Credit Societies
- Just Energy Transition Partnership (JET-P)
- New Tax Regime
- The status and proceeds of disinvestment
- Bhutan graduated from the 'Least Developed Country' status
- RBI allows banks of other nations to trade in rupee
- PM MITRA: Seven states selected to develop Mega Textile Parks
- Prudent Asset Liability management
- SEBI getting set to regulate index providers



# SCIENCE & TECHNOLOGY

## CHEMISTRY

- |  |                          |                                      |                          |
|--|--------------------------|--------------------------------------|--------------------------|
| • Elements and Molecules   | <input type="checkbox"/> | • Properties of solution             | <input type="checkbox"/> |
| • States of Matters  | <input type="checkbox"/> | • Chemicals in everyday life         | <input type="checkbox"/> |
| • Atomic structure   | <input type="checkbox"/> | • Polymers and Biopolymers           | <input type="checkbox"/> |
| • Chemical bonding   | <input type="checkbox"/> | • Chemistry of Pharmaceuticals       | <input type="checkbox"/> |
| • Metals and non-metals  | <input type="checkbox"/> | • Carbon and its allotropes          | <input type="checkbox"/> |
| • Metallurgy   | <input type="checkbox"/> | • Hydrocarbons and their derivatives | <input type="checkbox"/> |
| • Acid and base  | <input type="checkbox"/> | • Biomolecules                       | <input type="checkbox"/> |
| • Applications of electrochemistry<br>(Battery and Charging devices) | <input type="checkbox"/> | • Vitamins and Enzymes               | <input type="checkbox"/> |

## PHYSICS

- |  |                          |                                   |                          |
|--|--------------------------|-----------------------------------|--------------------------|
| • Properties of funda-mental particles     | <input type="checkbox"/> | • Universe                        | <input type="checkbox"/> |
| • Fundamental forces                       | <input type="checkbox"/> | • Planets, stars, and galaxies    | <input type="checkbox"/> |
| • Energy and its various types             | <input type="checkbox"/> | • Big-bang theory and singularity | <input type="checkbox"/> |
| • Optics                                   | <input type="checkbox"/> | • Dark matter and energy          | <input type="checkbox"/> |
| • Electromagnetic spectrum                 | <input type="checkbox"/> | • Black holes                     | <input type="checkbox"/> |
| • Laws and theories in physics, Relativity | <input type="checkbox"/> | • Neutrino Observatory            | <input type="checkbox"/> |
| • Electromagnetism                         | <input type="checkbox"/> | • Gravitational Waves             | <input type="checkbox"/> |
| • Heat and thermodynamics                  | <input type="checkbox"/> | • Sunspot                         | <input type="checkbox"/> |
| • Waves                                    | <input type="checkbox"/> | • Magnetars and Neutron stars     | <input type="checkbox"/> |
| • Mechanical                               | <input type="checkbox"/> | • Sub-atomic particles            | <input type="checkbox"/> |
| • Electromagnetic waves                    | <input type="checkbox"/> |                                   |                          |

## BIOLOGY

- |  |                          |               |                          |
|--|--------------------------|---------------|--------------------------|
| <input type="checkbox"/> <b>Chemical Building Blocks of Life</b> | <input type="checkbox"/> | • Viruses     | <input type="checkbox"/> |
| <input type="checkbox"/> <b>History and Origin of Life</b>       | <input type="checkbox"/> | • Prokaryotes | <input type="checkbox"/> |
| <input type="checkbox"/> <b>Diversity of Living Things</b>       | <input type="checkbox"/> | • Eukaryotes  | <input type="checkbox"/> |
| • Classification and Domains of Life                             | <input type="checkbox"/> | • Protists    | <input type="checkbox"/> |
|  |                          | • Plants      | <input type="checkbox"/> |

<ul style="list-style-type: none"> <li>• Fungi <input type="checkbox"/></li> <li>• Animals <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>• The Digestive System <input type="checkbox"/></li> <li>• Immune system <input type="checkbox"/></li> </ul>
<p>□ <b>Evolution</b></p> <ul style="list-style-type: none"> <li>• Evolution of Life <input type="checkbox"/></li> <li>• Human Evolution <input type="checkbox"/></li> </ul>	<p>□ <b>Nutrition</b></p> <ul style="list-style-type: none"> <li>• Classification by Source of Energy and Carbon <input type="checkbox"/></li> <li>• Plant Nutrition <input type="checkbox"/></li> <li>• Animal Nutrition <input type="checkbox"/></li> <li>• Human Diet <input type="checkbox"/></li> </ul>
<p>□ <b>Genetics</b></p> <ul style="list-style-type: none"> <li>• Inheritance <input type="checkbox"/></li> <li>• DNA and RNA <input type="checkbox"/></li> <li>• Gene Expression <input type="checkbox"/></li> <li>• Gene Regulation <input type="checkbox"/></li> <li>• Mutation <input type="checkbox"/></li> </ul>	<p>□ <b>Plant physiology</b></p> <ul style="list-style-type: none"> <li>• Photosynthesis <input type="checkbox"/></li> <li>• Respiration <input type="checkbox"/></li> <li>• Plant-water balance <input type="checkbox"/></li> <li>• Reproduction <input type="checkbox"/></li> </ul>
<p>□ <b>Cells</b></p> <ul style="list-style-type: none"> <li>• Cell Structure <input type="checkbox"/></li> <li>• Membranes <input type="checkbox"/></li> <li>• Cell-Cell Interactions <input type="checkbox"/></li> <li>• Respiration <input type="checkbox"/></li> <li>• Energy and Metabolism <input type="checkbox"/></li> <li>• Cells Division <input type="checkbox"/></li> <li>• Tissues <input type="checkbox"/></li> <li>• Epithelial tissue <input type="checkbox"/></li> <li>• Connective tissue <input type="checkbox"/></li> <li>• Muscle tissue <input type="checkbox"/></li> <li>• Nervous <input type="checkbox"/></li> <li>• Myocardial <input type="checkbox"/></li> <li>• Hepatic <input type="checkbox"/></li> </ul>	<p>□ <b>Economic Zoology</b></p> <ul style="list-style-type: none"> <li>• Microbes in Human Welfare <input type="checkbox"/></li> <li>• Beneficial animals <input type="checkbox"/></li> <li>• Beneficial insects <input type="checkbox"/></li> </ul>
<p>□ <b>Organ system and Human physiology</b></p> <ul style="list-style-type: none"> <li>• Endocrine System <input type="checkbox"/></li> <li>• Respiratory system <input type="checkbox"/></li> <li>• Circulatory system <input type="checkbox"/></li> <li>• Skeletal and Muscular Systems <input type="checkbox"/></li> <li>• Reproduction <input type="checkbox"/></li> <li>• Excretion, Osmoregulation and Thermoregulation <input type="checkbox"/></li> </ul>	<p>□ <b>Economic botany</b></p> <ul style="list-style-type: none"> <li>• Family of angiosperms <input type="checkbox"/></li> <li>• Tissue culture <input type="checkbox"/></li> <li>• Grafting <input type="checkbox"/></li> <li>• Horticulture <input type="checkbox"/></li> </ul>
	<p>□ <b>Imaging techniques</b></p> <ul style="list-style-type: none"> <li>• CT scan <input type="checkbox"/></li> <li>• Magnetic resonance imaging <input type="checkbox"/></li> <li>• Positron emission tomography (PET) <input type="checkbox"/></li> </ul>
	<p>□ <b>Biological fuel generation</b></p> <ul style="list-style-type: none"> <li>• Generation and significance of fossils fuels <input type="checkbox"/></li> <li>• Biofuels from biomass <input type="checkbox"/></li> <li>• Biodiesel <input type="checkbox"/></li> <li>• Natural gas and petroleum <input type="checkbox"/></li> <li>• Hydrogen <input type="checkbox"/></li> </ul>

## BIOTECHNOLOGY

- |  |  |
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| <ul style="list-style-type: none"> <li>□ <b>Genetic Engineering, Process, and Application</b> <input type="checkbox"/></li> <li>□ <b>Genomics</b> <input type="checkbox"/></li> <li>□ <b>Proteomics</b> <input type="checkbox"/></li> <li>□ <b>RNA Types &amp; Technology</b> <input type="checkbox"/></li> <li>□ <b>Genome sequencing and Its Applications</b> <input type="checkbox"/></li> <li>□ <b>Application of biotechnology in Environment</b> <input type="checkbox"/> <ul style="list-style-type: none"> <li>• Bio composting <input type="checkbox"/></li> <li>• Bioremediation <input type="checkbox"/></li> <li>• Microbial remediation <input type="checkbox"/></li> <li>• Carbon capture Technology <input type="checkbox"/></li> </ul> </li> <li>□ <b>Plant biotechnology</b> <input type="checkbox"/> <ul style="list-style-type: none"> <li>• Transgenic plants <input type="checkbox"/></li> <li>• Methods and application of Plant biotechnology <input type="checkbox"/></li> <li>• Animal biotechnology <input type="checkbox"/></li> <li>• Transgenic animals <input type="checkbox"/></li> <li>• Methods and application of Animal biotechnology <input type="checkbox"/></li> </ul> </li> <li>□ <b>Application of Biotechnology in Food and beverage industry</b> <input type="checkbox"/> <ul style="list-style-type: none"> <li>• Bioprocessing <input type="checkbox"/></li> <li>• Bioreactors <input type="checkbox"/></li> <li>• Manipulation of Enzymes <input type="checkbox"/></li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• Food processing <input type="checkbox"/></li> <li>• Single cell protein <input type="checkbox"/></li> <li>• Food fortification <input type="checkbox"/></li> <li>□ <b>Application of Biotechnology in agriculture</b> <input type="checkbox"/> <ul style="list-style-type: none"> <li>• GM technology <input type="checkbox"/></li> <li>• GM crops <input type="checkbox"/></li> <li>• Pest Resistant Plants <input type="checkbox"/></li> </ul> </li> <li>□ <b>Biotechnology and medicine</b> <input type="checkbox"/> <ul style="list-style-type: none"> <li>• Gene Editing <input type="checkbox"/></li> <li>• Gene therapy <input type="checkbox"/></li> <li>• Molecular Diagnosis <input type="checkbox"/></li> <li>• PCR <input type="checkbox"/></li> <li>• ELISA <input type="checkbox"/></li> <li>• Antibody-Antigen interactions and detections <input type="checkbox"/></li> <li>• Embryo transfer technology <input type="checkbox"/></li> <li>• Stem cells and their engineering <input type="checkbox"/></li> <li>• Biopharmaceuticals/therapeutic proteins <input type="checkbox"/></li> <li>• Brain fingerprinting technology <input type="checkbox"/></li> </ul> </li> <li>□ <b>Bioethics and Biopiracy</b> <input type="checkbox"/></li> <li>□ <b>Biosafety protocols</b> <input type="checkbox"/></li> <li>□ <b>IPR in Biotechnology</b> <input type="checkbox"/></li> <li>□ <b>Recent trends in biotechnology and applied biotechnology</b> <input type="checkbox"/></li> </ul> |
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## HUMAN HEALTH & DISEASES

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| <ul style="list-style-type: none"> <li>□ <b>Human Diseases</b> <input type="checkbox"/> <ul style="list-style-type: none"> <li>• Common diseases in human and their causative agents <input type="checkbox"/></li> <li>• Diseases due to nutrient deficiency <input type="checkbox"/></li> <li>• Molecular biology and human disease <input type="checkbox"/></li> <li>• Chromosomal inheritance and disease <input type="checkbox"/></li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• Extra chromosomal inheritance and disease <input type="checkbox"/></li> <li>• Vector borne diseases <input type="checkbox"/></li> <li>• Water borne diseases <input type="checkbox"/></li> <li>• Lifestyle diseases <input type="checkbox"/></li> <li>□ <b>Immunity and its types</b> <input type="checkbox"/></li> </ul> |
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| <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Vaccination and Immunisation</b> <input type="checkbox"/></li> <li><input type="checkbox"/> <b>Vaccination program of India</b> <input type="checkbox"/></li> <li><input type="checkbox"/> <b>Medicines</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Antibiotics <input type="checkbox"/></li> <li><input type="checkbox"/> Antiviral and antifungal drugs <input type="checkbox"/></li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> Monoclonal antibodies therapy <input type="checkbox"/></li> <li><input type="checkbox"/> Antimicrobial drug resistance <input type="checkbox"/></li> <li><input type="checkbox"/> Drug formulations <input type="checkbox"/></li> <li><input type="checkbox"/> Drug pricing in India <input type="checkbox"/></li> <li><input type="checkbox"/> Pharmacogenetics <input type="checkbox"/></li> </ul> |
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**SPACE**

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| <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Types of orbits</b> <input type="checkbox"/></li> <li><input type="checkbox"/> <b>Types of Launch Vehicles and application</b> <input type="checkbox"/></li> <li><input type="checkbox"/> <b>Space missions of key space agencies</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> NASA <input type="checkbox"/></li> <li><input type="checkbox"/> ISRO <input type="checkbox"/></li> <li><input type="checkbox"/> ESA <input type="checkbox"/></li> <li><input type="checkbox"/> ROSCOSMOS <input type="checkbox"/></li> <li><input type="checkbox"/> JAXA <input type="checkbox"/></li> <li><input type="checkbox"/> CNSA <input type="checkbox"/></li> </ul> </li> <li><input type="checkbox"/> <b>ISRO and its role in national development</b> <input type="checkbox"/></li> <li><input type="checkbox"/> <b>Private sector in space</b> <input type="checkbox"/></li> <li><input type="checkbox"/> <b>Public-private partnership in space sector</b> <input type="checkbox"/></li> <li><input type="checkbox"/> <b>Space Technology</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Cryogenics <input type="checkbox"/></li> <li><input type="checkbox"/> Nanosatellites <input type="checkbox"/></li> <li><input type="checkbox"/> Electric Propulsion <input type="checkbox"/></li> <li><input type="checkbox"/> Aviation Internet, Starlink communication <input type="checkbox"/></li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> Satellite communications <input type="checkbox"/></li> <li><input type="checkbox"/> Remote sensing and its applications <input type="checkbox"/></li> <li><input type="checkbox"/> Ground Segment-As-A-Service <input type="checkbox"/></li> <li><input type="checkbox"/> Green Propellant <input type="checkbox"/></li> <li><input type="checkbox"/> Deep Space Atomic Clock <input type="checkbox"/></li> <li><input type="checkbox"/> <b>Strategic dimensions</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Space weapons <input type="checkbox"/></li> <li><input type="checkbox"/> A-SAT technology <input type="checkbox"/></li> <li><input type="checkbox"/> Laser technology <input type="checkbox"/></li> <li><input type="checkbox"/> HGV technology <input type="checkbox"/></li> </ul> </li> <li><input type="checkbox"/> <b>International Space Collaboration</b> <input type="checkbox"/></li> <li><input type="checkbox"/> <b>Various Space Observatories</b> <input type="checkbox"/></li> <li><input type="checkbox"/> <b>Various Telemetry</b> <input type="checkbox"/></li> <li><input type="checkbox"/> <b>Navigation</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Global Positioning System <input type="checkbox"/></li> <li><input type="checkbox"/> Galileo <input type="checkbox"/></li> <li><input type="checkbox"/> GLONASS <input type="checkbox"/></li> <li><input type="checkbox"/> IRNSS <input type="checkbox"/></li> <li><input type="checkbox"/> Geopolitics of outer space <input type="checkbox"/></li> </ul> </li> </ul> |
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**DEFENCE**

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| <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Missile System &amp; Classification</b> <input type="checkbox"/></li> <li><input type="checkbox"/> <b>Ballistics And Cruise Missile</b> <input type="checkbox"/></li> <li><input type="checkbox"/> <b>India's Missile System</b> <input type="checkbox"/></li> <li><input type="checkbox"/> <b>Integrated Guided Missile Program</b> <input type="checkbox"/></li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Missile Defence Programmes</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Defence Technology <input type="checkbox"/></li> <li><input type="checkbox"/> Application of robotics in defence sector <input type="checkbox"/></li> <li><input type="checkbox"/> Application of AI in defence <input type="checkbox"/></li> <li><input type="checkbox"/> Internet of Military Things (IoMT) <input type="checkbox"/></li> </ul> </li> </ul> |
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<ul style="list-style-type: none"> <li>• Cyber warfare, and preparedness <input type="checkbox"/></li> <li>• Drone technology <input type="checkbox"/></li> <li>• Unmanned Aerial Vehicle <input type="checkbox"/></li> <li>• Stealth technology <input type="checkbox"/></li> <li>• Advanced Defence Equipment <input type="checkbox"/></li> <li>• Air Defence system <input type="checkbox"/></li> <li>• 3-D printing missiles <input type="checkbox"/></li> <li>• Lethal Autonomous Weapons <input type="checkbox"/></li> <li>• Hypersonic technology <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Hypersonic glide vehicles <input type="checkbox"/></li> <li>◦ Hypersonic cruise missiles <input type="checkbox"/></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Chemical Weapons <input type="checkbox"/></li> <li>• Biological Weapons <input type="checkbox"/></li> <li>• Directed Energy Weapons <input type="checkbox"/></li> </ul>
<p><input type="checkbox"/> <b>Weapon System</b></p> <ul style="list-style-type: none"> <li>• Classical weapons <input type="checkbox"/></li> <li>• Weapon of mass destruction <input type="checkbox"/></li> <li>• Fission and fusion bombs <input type="checkbox"/></li> </ul>	<p><input type="checkbox"/> <b>Defence Reforms</b></p> <ul style="list-style-type: none"> <li>• CDS <input type="checkbox"/></li> <li>• Various committees and recommendations <input type="checkbox"/></li> </ul> <p><input type="checkbox"/> <b>Domains of Warfare</b></p> <p><input type="checkbox"/> <b>Defence Platforms</b></p> <ul style="list-style-type: none"> <li>• Submarine <input type="checkbox"/></li> <li>• Aircraft carrier <input type="checkbox"/></li> <li>• Combat aircraft <input type="checkbox"/></li> </ul> <p><input type="checkbox"/> <b>Defence Organizations and laboratories</b></p> <p><input type="checkbox"/> <b>Defence Exercises</b></p>

## NUCLEAR ENERGY

<p><input type="checkbox"/> <b>Types of nuclear reactions</b> <input type="checkbox"/></p> <p><input type="checkbox"/> <b>Nuclear Energy and its application</b></p> <ul style="list-style-type: none"> <li>• Civil and military applications of Nuclear Energy <input type="checkbox"/></li> </ul> <p><input type="checkbox"/> <b>Nuclear Fuels and Centrifugation</b> <input type="checkbox"/></p> <p><input type="checkbox"/> <b>Nuclear Reactor</b> <input type="checkbox"/></p> <p><input type="checkbox"/> <b>Nuclear Policy of India</b> <input type="checkbox"/></p> <p><input type="checkbox"/> <b>Nuclear Radiation and Its impact</b> <input type="checkbox"/></p>	<p><input type="checkbox"/> <b>Radioactive Waste</b> <input type="checkbox"/></p> <p><input type="checkbox"/> <b>Nuclear &amp; Radiological Disasters</b> <input type="checkbox"/></p> <p><input type="checkbox"/> <b>Institutions involved in Nuclear Energy Development</b> <input type="checkbox"/></p> <ul style="list-style-type: none"> <li>• Department of Atomic Energy <input type="checkbox"/></li> <li>• Atomic Energy Regulatory Board <input type="checkbox"/></li> <li>• Bhabha Atomic Research Centre <input type="checkbox"/></li> <li>• Indira Gandhi Centre for Atomic Research <input type="checkbox"/></li> </ul>
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## ELECTRONICS & TELECOMMUNICATIONS

<p><input type="checkbox"/> <b>Computers</b></p> <ul style="list-style-type: none"> <li>• Generation of computers <input type="checkbox"/></li> <li>• Computer terminologies <input type="checkbox"/></li> <li>• Supercomputer and its applications <input type="checkbox"/></li> <li>• Cloud computing <input type="checkbox"/></li> </ul> <p><input type="checkbox"/> <b>Information Technology</b></p>	<ul style="list-style-type: none"> <li>• Components of IT <input type="checkbox"/></li> <li>• IT enabled services <input type="checkbox"/></li> <li>• Application of IT <input type="checkbox"/></li> </ul> <p><input type="checkbox"/> <b>Display Technologies</b></p> <ul style="list-style-type: none"> <li>• Cathode ray <input type="checkbox"/></li> <li>• LCD <input type="checkbox"/></li> </ul>
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- LED
- Plasma Monitors
- OLED
- AMOLED
- Mobile Generations
- Smartphone

- Net Neutrality
- Internet of Things
- Big Data Initiative and Privacy
- Cyber-crime and Security
- Government Initiatives

## NANO SCIENCE & NANO TECHNOLOGIES

- Basics of Nano Science and Nano Technology
- Nanomaterial
- Applications of Nano Technology
  - Nano medicine
  - Semiconductors and computing
  - Food
  - Textiles
  - Sustainable energy
  - Environment

- Transport
- Space
- Agriculture
- Impacts of Nano Technology
  - Adverse Health and Environmental
  - Social and Ethical Impacts
- Nano Science & Nano technology in India

## ROBOTICS & AI

- Robotics
  - Machine vs Computer vs Robots
  - Parts of a Robot
  - Classification of Robots
  - Advantages and Disadvantages of Robot
  - Applications of Robotics in Agriculture, industry, defence, etc.

- AI
  - Neural networks
  - Machine Learning and Deep learning
  - Application of AI
  - Artificial Intelligence and Robotics

## IPR

- IPR
  - What are Intellectual Property Rights (IPR)?
  - Types of Intellectual Property Rights

- International Agreements and Institution on IPR
- IPR Regime in India
- National Intellectual Property Rights Policy

## INSTITUTIONS & POLICY

### □ Institutions & Policy

- India's policy in the field of the science and technology
- Various policies for S&T
- Institutional structure
- Department of Science & Technology
- CSIR
- Science and Engineering Research Board
- Technology Development Board
- National Accreditation Board For Testing And Calibration Laboratories
- Science and technology as a source of Human Resource Development
- Awards related to Science
- India and global collaboration in science projects
- Technology Vision Document 2035

## CONTEMPORARY ISSUES

- Private sector and its role in space
- Indigenization of Technology and Developing New Technology.
- Defence Technology Issues, Challenges and solutions
- Indigenization in the Defence Technology
- Importance and Challenges in front of India with respect to Nuclear energy use.
- Importance of Nano-technology in 21st century
- Biotechnology and its challenges
- Applications of Web 3.0
- Additive Manufacture: opportunities & challenges
- Importance of AI in India
- Robotics and Issues of Unemployment
- Issue of Public Health Surveillance
- India's Space Sector (Private Sector in Space, Indian Space Policy – 2023)
- Space Debris
- Importance of Drone Technology in Indian Agriculture
- Policing in the Metaverse
- 5G Technology & India (Web 5.0)
- India's geospatial technology
- CRISPR & its role in changing the world (10 Years of CRISPR)
- Increasing adoption of AI (Delhi Police's use of Facial Recognition Technology)
- ChatGPT: Artificial Intelligence and ethical challenges
- Biotransformation technology
- Increasing Cyber Attacks (LockBit ransomware, Bluebugging, Hermit, the Pegasus-like spyware)
- Deepfake (China to rein in 'deepfake' tech)
- Antimicrobial Resistance (recognised as a 'silent pandemic')
- India's Deep Ocean Mission
- The uncontrolled re-entries of satellites
- Human Cell Atlas
- The status of India's national cyber security strategy
- Recycling heat generated by datacenters



# ENVIRONMENT & ECOLOGY

<p><b>□ Ecology</b></p> <ul style="list-style-type: none"> <li>• Types of Ecology <input type="checkbox"/></li> <li>• Ecological Hierarchy <input type="checkbox"/></li> <li>• Scope of Ecology <input type="checkbox"/></li> <li>• Habitat &amp; Ecological Niche <input type="checkbox"/></li> <li>• Deep vs Shallow Ecology <input type="checkbox"/></li> <li>• Ecological Principles <input type="checkbox"/></li> <li>• Ecological Community <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Structure and Characteristics of a Community <input type="checkbox"/></li> <li>◦ Stratification <input type="checkbox"/></li> <li>◦ Ecotones <input type="checkbox"/></li> <li>◦ Ecological Dominance <input type="checkbox"/></li> <li>◦ Seasonal and Diurnal Fluctuation <input type="checkbox"/></li> <li>◦ Periodicity <input type="checkbox"/></li> <li>◦ Turnover <input type="checkbox"/></li> <li>◦ Interdependence <input type="checkbox"/></li> </ul> </li> <li>• Ecological Succession <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Types and Process of Succession <input type="checkbox"/></li> <li>◦ Climax Community <input type="checkbox"/></li> </ul> </li> <li>• Range of Tolerance, Maximum Range <input type="checkbox"/></li> <li>• Difference between Ecology, Environment and Ecosystem <input type="checkbox"/></li> </ul> <p><b>□ Ecosystem and its dynamics</b></p> <ul style="list-style-type: none"> <li>• Ecosystem Definitions <input type="checkbox"/></li> <li>• Functions and Properties of Ecosystem <input type="checkbox"/></li> <li>• The Structure/Components of Ecosystem <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Abiotic Components <input type="checkbox"/></li> <li>◦ Biotic Components <input type="checkbox"/></li> </ul> </li> <li>• Ecosystem Dynamics <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Flow of Energy in Ecosystem <input type="checkbox"/></li> <li>◦ Trophic Levels <input type="checkbox"/></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>◦ Food Chain <input type="checkbox"/></li> <li>◦ Types &amp; Significance of Food Chain <input type="checkbox"/></li> <li>◦ Food Web <input type="checkbox"/></li> <li>◦ Models for Energy Flow <input type="checkbox"/></li> <li>◦ Ecological Productivity <input type="checkbox"/></li> <li>◦ Ecological Pyramid <input type="checkbox"/></li> <li>• Biomagnifications <input type="checkbox"/></li> <li>• Biological Control <input type="checkbox"/></li> <li>• Organic Farming <input type="checkbox"/></li> </ul> <p><b>□ Biogeochemical Cycles</b></p> <ul style="list-style-type: none"> <li>• Parts of a Bio Geochemical Cycle <input type="checkbox"/></li> <li>• Types of Biogeochemical Cycle <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Carbon Cycle <input type="checkbox"/></li> <li>◦ Nitrogen Cycle <input type="checkbox"/></li> <li>◦ Phosphorus Cycle <input type="checkbox"/></li> <li>◦ Sulphur Cycle <input type="checkbox"/></li> </ul> </li> </ul> <p><b>□ Biomes: Forest, Grassland, Mountain, and Desert Ecosystems</b></p> <ul style="list-style-type: none"> <li>• Biome <input type="checkbox"/></li> <li>• Grasslands <input type="checkbox"/></li> <li>• Tundra <input type="checkbox"/></li> <li>• Deserts <input type="checkbox"/></li> <li>• Thar desert <input type="checkbox"/></li> <li>• Mountain biome <input type="checkbox"/></li> </ul> <p><b>□ Aquatic Life Zones: Ocean, Rivers, Lakes, and Wetlands</b></p> <ul style="list-style-type: none"> <li>• Aquatic ecosystems <input type="checkbox"/></li> <li>• Basic facts about the ocean <input type="checkbox"/></li> <li>• Importance of the ocean <input type="checkbox"/></li> <li>• Zones of the ocean <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Marine life <input type="checkbox"/></li> </ul> </li> </ul>
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<ul style="list-style-type: none"> <li>• Coral reefs <input type="checkbox"/></li> <li>• Coral reefs in India <input type="checkbox"/></li> <li>• Conserving coral reefs <input type="checkbox"/></li> <li>• Mangroves <input type="checkbox"/></li> <li>• Mangroves in India <input type="checkbox"/></li> <li>• Freshwater in India <input type="checkbox"/></li> <li>• Importance of lakes <input type="checkbox"/></li> <li>• National Lake Conservation Plan <input type="checkbox"/></li> <li>• Wetlands and their importance <input type="checkbox"/></li> <li>• Ramsar Convention <input type="checkbox"/></li> <li>• Ramsar Sites <input type="checkbox"/></li> <li>• Montreux Record <input type="checkbox"/></li> <li>• Extent and distribution of wetlands in India <input type="checkbox"/></li> <li>• Conserving the wetlands of India <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>• Ex-situ and in-situ conservation <input type="checkbox"/></li> <li>• Seed banks <input type="checkbox"/></li> <li>• Zoos in biodiversity conservation <input type="checkbox"/></li> <li>• Botanical gardens <input type="checkbox"/></li> <li>• Protected areas <input type="checkbox"/></li> <li>• State of protected areas in the world <input type="checkbox"/></li> <li>• UNESCO Man and the Biosphere Program (MAB) <input type="checkbox"/></li> <li>• Characteristics of biosphere reserves <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ International agreements for biodiversity conservation</li> </ul> </li> <li>• Convention on Biological Diversity <input type="checkbox"/></li> <li>• Cartagena Protocol <input type="checkbox"/></li> <li>• Nagoya Protocol <input type="checkbox"/></li> <li>• Aichi Biodiversity Targets <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Important Coastal and Marine Biodiversity Areas of India</li> </ul> </li> <li>• Important Bird Areas (IBAs) of India <input type="checkbox"/></li> <li>• Global Tiger Initiative <input type="checkbox"/></li> <li>• Project Tiger <input type="checkbox"/></li> <li>• Project Elephant <input type="checkbox"/></li> <li>• Indian Rhino Vision <input type="checkbox"/></li> <li>• Recovery Programme for Critically Endangered Species <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Use of indigenous knowledge for conserving biodiversity</li> <li>◦ Seed village</li> </ul> </li> </ul>
<p><b>□ Biodiversity Basics</b></p> <ul style="list-style-type: none"> <li>• Biodiversity <input type="checkbox"/></li> <li>• Important kinds of biodiversity <input type="checkbox"/></li> <li>• Degree of diversity in an ecosystem <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Endemic species</li> </ul> </li> <li>• Keystone species <input type="checkbox"/></li> <li>• Indicator species <input type="checkbox"/></li> <li>• Invasive species <input type="checkbox"/></li> <li>• Allopatric and sympatric speciation <input type="checkbox"/></li> <li>• Bioinformatics <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Biodiversity distribution</li> </ul> </li> <li>• Megadivers Countries <input type="checkbox"/></li> <li>• Uses and values of biodiversity <input type="checkbox"/></li> <li>• State of global biodiversity <input type="checkbox"/></li> <li>• Threats to biodiversity <input type="checkbox"/></li> <li>• Biodiversity Hotspots <input type="checkbox"/></li> <li>• Eco-regions <input type="checkbox"/></li> <li>• Role of traditional knowledge in biodiversity <input type="checkbox"/></li> <li>• Biopiracy <input type="checkbox"/></li> <li>• Extinction of species <input type="checkbox"/></li> <li>• Mass extinction <input type="checkbox"/></li> <li>• IUCN's classification scheme <input type="checkbox"/></li> <li>• IUCN Red-List of Threatened Species <input type="checkbox"/></li> <li>• Level of biodiversity in India <input type="checkbox"/></li> <li>• Biogeographical classification of India <input type="checkbox"/></li> </ul>	<p><b>□ Effect of Human Activities on Environment</b></p> <ul style="list-style-type: none"> <li>• Effect of Modern Agriculture on Environment <input type="checkbox"/></li> <li>• Effect of Housing on Environment <input type="checkbox"/></li> <li>• Effect of Power Generation on Environment <input type="checkbox"/></li> <li>• Effect of River Valley Projects (Water Resource Projects) on Environment <input type="checkbox"/></li> <li>• Effect of Mining on Environment <input type="checkbox"/></li> <li>• Effect of Transportation Activities on Environment <input type="checkbox"/></li> <li>• Effect of Tourism on Environment <input type="checkbox"/></li> </ul> <p><b>□ Water Resource degradation</b></p> <ul style="list-style-type: none"> <li>• Water Cycle (Hydrological Cycle) <input type="checkbox"/></li> </ul>

<ul style="list-style-type: none"> <li>• Availability and Quality Aspects (groundwater depletion) <input type="checkbox"/></li> <li>• Water-borne and Water-induced Diseases <input type="checkbox"/></li> <li>• Fluoride Problem in Drinking Water <input type="checkbox"/></li> <li>• Arsenic Problem in Drinking Water <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>• Plastic Waste <input type="checkbox"/></li> <li>• Methods for Waste Management <input type="checkbox"/></li> <li>• Effects of Poor Waste Disposal <input type="checkbox"/></li> <li>• Landfill <input type="checkbox"/></li> </ul>
<p><b>□ Minerals &amp; Environmental Degradation</b></p> <ul style="list-style-type: none"> <li>• Mining and Environment <input type="checkbox"/></li> <li>• Sensitivity of Select Ecosystems to Mining <input type="checkbox"/></li> <li>• Impact of Mining <input type="checkbox"/></li> <li>• Indirect Impact of Mining <input type="checkbox"/></li> <li>• International Laws on Mining <input type="checkbox"/></li> <li>• Main Act or Statute to regulate the impact of Indian Mining Sector <input type="checkbox"/></li> <li>• Sustainable Mining <input type="checkbox"/></li> </ul>	<p><b>□ Sustainable Development</b></p> <ul style="list-style-type: none"> <li>• Principles of sustainability <input type="checkbox"/></li> <li>• Measurement of Sustainability or Sustainable Ethics or Equitable Utilisation of Natural Resource <input type="checkbox"/></li> <li>• Sustainable Lifestyle (Role of an individual in sustainable development) <input type="checkbox"/></li> <li>• Challenges to Sustainable Development <input type="checkbox"/></li> <li>• International Efforts to Achieve Sustainability <input type="checkbox"/></li> </ul>
<p><b>□ Deforestation</b></p> <ul style="list-style-type: none"> <li>• Causes of Deforestation <input type="checkbox"/></li> <li>• Implications of Deforestation for Climate Change <input type="checkbox"/></li> <li>• Consequences of Deforestation on the Wildlife of India <input type="checkbox"/></li> <li>• Impact of Deforestation on Indian Monsoon <input type="checkbox"/></li> <li>• Impact of Deforestation on People <input type="checkbox"/></li> <li>• Deforestation Leads to Water and Soil Resources Loss and Flooding <input type="checkbox"/></li> <li>• Economical Impacts <input type="checkbox"/></li> <li>• Strategies for Reducing Deforestation <input type="checkbox"/></li> <li>• Government Programmes for Conservation of Forests <input type="checkbox"/></li> <li>• Legislations for Conservation of Forests using People Participation <input type="checkbox"/></li> <li>• Steps for Improving People Participation in Forest Resource Management <input type="checkbox"/></li> <li>• Use of Local Traditional Methods <input type="checkbox"/></li> </ul>	<p><b>□ Environmental Pollution</b></p> <ul style="list-style-type: none"> <li>• Air Pollution <input type="checkbox"/></li> <li>• Sources of Air Pollution <input type="checkbox"/></li> <li>• Effects of Air Pollution <input type="checkbox"/></li> <li>• Classification of Air Pollutant <input type="checkbox"/></li> <li>• Control Measures of Air Pollution <input type="checkbox"/></li> <li>• Air Pollution Disasters <input type="checkbox"/></li> <li>• Long Range Transport of Gaseous Air Pollutants <input type="checkbox"/></li> <li>• National Ambient Air Quality Standards <input type="checkbox"/></li> <li>• Water Pollution <input type="checkbox"/></li> <li>• Sources of Water Pollution <input type="checkbox"/></li> <li>• Types of Water Pollutants <input type="checkbox"/></li> <li>• Effects of Water Pollution <input type="checkbox"/></li> <li>• Water Quality Standards <input type="checkbox"/></li> <li>• Control of Water Pollution <input type="checkbox"/></li> <li>• Thermal Pollution <input type="checkbox"/></li> <li>• Sources of Thermal Pollution <input type="checkbox"/></li> <li>• Effects of Thermal Pollution <input type="checkbox"/></li> <li>• Control of Thermal Pollution <input type="checkbox"/></li> <li>• Soil Pollution or Land Degradation <input type="checkbox"/></li> <li>• Sources of Soil Pollution <input type="checkbox"/></li> <li>• Effects of Soil Pollution <input type="checkbox"/></li> <li>• Control Measures <input type="checkbox"/></li> <li>• Noise Pollution <input type="checkbox"/></li> </ul>
<p><b>□ Waste Management</b></p> <ul style="list-style-type: none"> <li>• Solid Waste <input type="checkbox"/></li> <li>• Hazardous Waste <input type="checkbox"/></li> <li>• E-Waste <input type="checkbox"/></li> <li>• Bio Medical Waste <input type="checkbox"/></li> </ul>	

<ul style="list-style-type: none"> <li>• Air-borne Diseases <input type="checkbox"/></li> <li>• Toxic Substances: Toxicant, Toxicity and Toxicology <input type="checkbox"/></li> <li>• Factors affecting toxicity <input type="checkbox"/></li> <li>• Carcinogens <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>• Waste Management <input type="checkbox"/></li> <li>• Biodegradable Plastics <input type="checkbox"/></li> <li>• Green Train Corridors <input type="checkbox"/></li> <li>• Oil Spill <input type="checkbox"/></li> <li>• Solid Waste Management-Buffer Zone <input type="checkbox"/></li> <li>• Other News <input type="checkbox"/></li> <li>• Report of Parliamentary Committee on Forest Fires <input type="checkbox"/></li> <li>• Urban Forestry Scheme <input type="checkbox"/></li> <li>• Draft Notification to Regulate Pet Shops <input type="checkbox"/></li> <li>• Ban on Import of Animal Skin <input type="checkbox"/></li> <li>• River linking Project and Impact on Environment <input type="checkbox"/></li> <li>• Algal Bloom Issue <input type="checkbox"/></li> <li>• Illegal Salt Mining and its Impact <input type="checkbox"/></li> <li>• India's Wetland Report, 2016 <input type="checkbox"/></li> <li>• Deep Sea Mining <input type="checkbox"/></li> <li>• Mass Coral Bleaching <input type="checkbox"/></li> <li>• Ganga River Pollution <input type="checkbox"/></li> </ul>
<p>□ <b>Solid Waste Management</b></p> <ul style="list-style-type: none"> <li>• Sources of Solid Waste <input type="checkbox"/></li> <li>• Effect of Solid Waste <input type="checkbox"/></li> <li>• Control Measures of Solid Waste <input type="checkbox"/></li> <li>• Solid Waste Management Rules <input type="checkbox"/></li> <li>• Hazardous Waste Management (HWM) <input type="checkbox"/></li> </ul>	<p>□ <b>Environmental Impact Assessment</b></p> <ul style="list-style-type: none"> <li>• Government Body which Executes EIA <input type="checkbox"/></li> <li>• Environmental Effects Analysed under EIA <input type="checkbox"/></li> <li>• Process of EIA <input type="checkbox"/></li> <li>• EIA Ruling 1984 <input type="checkbox"/></li> </ul>
<p>□ <b>Coastal Ecosystem Management</b></p> <ul style="list-style-type: none"> <li>• Mangroves <input type="checkbox"/></li> <li>• Salient features of Mangroves <input type="checkbox"/></li> <li>• Importance of Mangroves <input type="checkbox"/></li> <li>• Mangroves in India <input type="checkbox"/></li> <li>• Mangroves under threats <input type="checkbox"/></li> <li>• Legal and Regulatory Approaches for Protection <input type="checkbox"/></li> <li>• Estuaries <input type="checkbox"/></li> <li>• Importance of estuaries <input type="checkbox"/></li> <li>• Threats to estuaries <input type="checkbox"/></li> <li>• Coral Reefs <input type="checkbox"/></li> <li>• Geographical Conditions Required <input type="checkbox"/></li> <li>• Uses of coral reefs <input type="checkbox"/></li> <li>• Conservation of coral reef <input type="checkbox"/></li> <li>• Steps for Coastal Ecosystem <input type="checkbox"/></li> <li>• Management <input type="checkbox"/></li> </ul>	<p>□ <b>Environmental Laws</b></p> <ul style="list-style-type: none"> <li>• Environmental Laws: Provisions in the Indian Constitution towards Environmental Protection <input type="checkbox"/></li> <li>• Salient Features of Air (Prevention and Control of Pollution) Act, 1981 <input type="checkbox"/></li> <li>• Salient Features of Water (Prevention and Control of Pollution) Act, 1974 <input type="checkbox"/></li> <li>• Salient features of Forest Conservation Act, 1980 <input type="checkbox"/></li> <li>• Salient Features of Wildlife Protection Act, 1972 <input type="checkbox"/></li> <li>• Salient Features of Environment (Protection) Act, 1986 <input type="checkbox"/></li> <li>• Role of Government in Environmental Protection <input type="checkbox"/></li> </ul>
<p>□ <b>Recent developments</b></p> <ul style="list-style-type: none"> <li>• Air Pollution <input type="checkbox"/></li> <li>• Report on Air Pollution <input type="checkbox"/></li> <li>• Bharat Stage Emission Standards <input type="checkbox"/></li> <li>• Polluters Pay Model <input type="checkbox"/></li> <li>• Household Air Pollution <input type="checkbox"/></li> <li>• Open Waste Burning and its Impact <input type="checkbox"/></li> <li>• Graded Response Action Plan on Pollution <input type="checkbox"/></li> <li>• UN Sets Limits on Global Airline Emissions <input type="checkbox"/></li> </ul>	

□ **Environment related Institutions and Organizations**

- Pollution Control Boards
- National Green Tribunal
- Forest Survey of India
- National Board for Wildlife

□ **Schemes**

- Ecomark Scheme
- National Afforestation Program
- National River Conservation Plan
- National Mission for Clean Ganga
- National Air Quality Index (AQI)
- National Action Programme to Combat Desertification
- UJALA Scheme
- Bharat Stage Norms

□ **International Environmental Governance**

- UNEP
- UNDP
- Centre for Biological Diversity
- WWF for Nature
- IUCN - Red List
- Birdlife International
- International Conventions/Protocols & their Objectives

□ **Basics of Climate change**

- Green House Effect and Global Warming
- Global Climate Change: International Efforts to Control Global Warming or Global Climate Change

- Ozone Layer Depletion or Ozone Hole
- Acid Rain
- El Nino
- La Nina

□ **Urbanization and climate**

- Pollution in metros and climate change
- Real estate boom and environment degradation
- Urban Heat Island
- Polythene bags and pollution
- Methane generation from waste

□ **Impact of agriculture on climate**

- Agriculture increases Carbon Dioxide Emissions
- Monoculture practice impacts biodiversity
- Pollution due to use of chemical fertilizers
- Soil-related effects
- Fertilizer's Effect on the Environment
- Impact of livestock on environment
- Impact of use of pesticides on environment
- Impact of GM crop on environment
- Emission of Methane from agricultural practices
- Sustainable Agriculture Techniques

□ **Global Warming & Health**

- Health impacts of global warming
- Mosquito-borne diseases
- Ozone depletion and human health

**CONTEMPORARY ISSUES**

- Threat to Biomes and their conservation
- Relevance of International Conventions in protecting Environment
- Wetland and coasted region conservation in India

- Impact of National Hydrogen Mission
- Plastic Pollution, Plastic Pollution Waste management Rules, 2021 and 2022
- Causes and Impacts of Land Degradation

- Sustainable Land Management measures in India.
- Issues with EIA process in India
- Landslides And Fragile Ecosystem Of Hilly States
- Cyclone And Its Impact On Coastal Women
- Marine Heat Waves And Its Impact On Marine Biodiversity
- Role of Local Self-Government in Disaster Management
- Role of the GIS and Information Technology in Disaster Management
- Environment driven taxes
- Artificial Intelligence and its climate cost
- India's Renewable sector (Wind Project addition to peak by 2024)
- Access to a clean, healthy environment, a universal right
- Agro-forestry and its socio-economic impact
- Man-Animal Conflict
- Green Investments and Sustainability
- Balancing Global Nutrition and Climate Change
- Indian solar-power dream
- Biofuels and E20 fuel
- Nord stream and hazardous methane release
- The UN High Seas Treaty drafted
- Energy Conservation Act Amendment and Carbon market
- Global Biodiversity Framework
- The Wildlife Protection Act 2022 and its relevance
- Carbon Border Adjustment Mechanism



# INTERNAL SECURITY

<ul style="list-style-type: none"> <li>□ <b>Internal Security Challenges</b> <ul style="list-style-type: none"> <li>• Social Diversity as Issues of Security <input type="checkbox"/></li> <li>• Challenges from within Neighbours as Issue of SecurityThreat <input type="checkbox"/></li> <li>• Non-State Actors as Issue of Security Threat <input type="checkbox"/></li> <li>• Global Indices and Measurement of Vulnerability of a State Towards such Non-State Actors <input type="checkbox"/></li> <li>• Law and Order vs. Internal Security <input type="checkbox"/></li> </ul> </li> <li>□ <b>Terrorism Threat to India</b> <ul style="list-style-type: none"> <li>• Changing face of Terrorism <input type="checkbox"/></li> <li>• Terror Threats Faced by India <input type="checkbox"/></li> <li>• Broader Framework to Deal with Terrorism <input type="checkbox"/></li> <li>• Drawbacks in Intelligence Infrastructure <input type="checkbox"/></li> </ul> </li> <li>□ <b>Organized Crime</b> <ul style="list-style-type: none"> <li>• Types of Organized Crime <input type="checkbox"/></li> <li>• Problems in controlling organized crimes <input type="checkbox"/></li> <li>• Drug trafficking in India <input type="checkbox"/></li> <li>• Combating organized crimes <input type="checkbox"/></li> <li>• Linkage of Terrorism and Organized Crime in India <input type="checkbox"/></li> </ul> </li> <li>□ <b>Linkage between Development and Spread of Extremism</b> <ul style="list-style-type: none"> <li>• Stated Purpose of the Naxal Movement <input type="checkbox"/></li> <li>• Covid 19 and Naxalism <input type="checkbox"/></li> <li>• Why naxalism got huge support from common man? <input type="checkbox"/></li> <li>• Why naxalism is biggest threat to internal security? <input type="checkbox"/></li> </ul> </li> <li>□ <b>Insurgency in North-East</b> <ul style="list-style-type: none"> <li>• Issues &amp; Conflicts <input type="checkbox"/></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Assam Insurgency <input type="checkbox"/></li> <li>• Resolving the Bodo Issue <input type="checkbox"/></li> <li>□ <b>Security Challenges in Border Areas</b> <ul style="list-style-type: none"> <li>• Challenges to Border Management <input type="checkbox"/></li> <li>• Issues Faced in Border Management <input type="checkbox"/></li> <li>• Community Participation for Border Management <input type="checkbox"/></li> </ul> </li> <li>□ <b>Basics of Cyber Security</b> <ul style="list-style-type: none"> <li>• Types of Cyber Crimes <input type="checkbox"/></li> <li>• Impact and Steps needed <input type="checkbox"/></li> <li>• Recent Incident: Ransomware <input type="checkbox"/></li> <li>• India’s Cyber Security Infrastructure <input type="checkbox"/></li> <li>• The National Cyber Security Policy of India 2013 <input type="checkbox"/></li> </ul> </li> <li>□ <b>Cyber Warfare</b> <ul style="list-style-type: none"> <li>• Factors Contributing/ Aggravating Rise of Cyber Attack <input type="checkbox"/></li> <li>• Recent Initiatives for Tackling Cyber Warfare <input type="checkbox"/></li> </ul> </li> <li>□ <b>Social Media and Internal Security Threat</b> <ul style="list-style-type: none"> <li>• Regulation of Social Media in India for Internal Security <input type="checkbox"/></li> <li>• Challenges in Monitoring Social Media <input type="checkbox"/></li> <li>• Steps Needed <input type="checkbox"/></li> </ul> </li> <li>□ <b>Money Laundering</b> <ul style="list-style-type: none"> <li>• Meaning of Money Laundering <input type="checkbox"/></li> <li>• Harmful Effects of Money Laundering <input type="checkbox"/></li> <li>• Steps taken by the Government <input type="checkbox"/></li> </ul> </li> <li>□ <b>Black Money in India</b> <ul style="list-style-type: none"> <li>• Parallel Economy in India <input type="checkbox"/></li> </ul> </li> </ul>
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| <ul style="list-style-type: none"> <li>• What are the various measures taken by Government to curb Black Money? <input type="checkbox"/></li> <li>• Impact of demonetisation on black money <input type="checkbox"/></li> <li>• Criticisms <input type="checkbox"/></li> </ul> <p>□ <b>Police Reforms in India</b></p> <ul style="list-style-type: none"> <li>• The Organisational Structure <input type="checkbox"/></li> <li>• Duties and Responsibilities of the Police <input type="checkbox"/></li> <li>• Centre's Role in Policing <input type="checkbox"/></li> <li>• Traditional Security Challenges <input type="checkbox"/></li> <li>• Non-Traditional Security Challenges (NTS) <input type="checkbox"/></li> <li>• Recommendations for Police Reforms <input type="checkbox"/></li> </ul> | <ul style="list-style-type: none"> <li>• Police we Want in 21st Century <input type="checkbox"/></li> </ul> <p>□ <b>Various Security Forces and their Mandate</b></p> <ul style="list-style-type: none"> <li>• Assam Rifles <input type="checkbox"/></li> <li>• Border Security Force (BSF) <input type="checkbox"/></li> <li>• Indo-Tibetan Border Police <input type="checkbox"/></li> <li>• Central Industrial Security Force (CISF) <input type="checkbox"/></li> <li>• Central Reserve Police Force <input type="checkbox"/></li> <li>• National Security Guard <input type="checkbox"/></li> <li>• Integrated theatre commands <input type="checkbox"/></li> <li>• National Maritime Security Coordinator <input type="checkbox"/></li> <li>• Issues with Paramilitary Forces <input type="checkbox"/></li> </ul> |
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## CONTEMPORARY ISSUES

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| <ul style="list-style-type: none"> <li>◦ Drug trafficking and Narcoterrorism emerge as a national threat for India</li> <li>◦ Growing insurgency in different states of India</li> <li>◦ De-Radicalization in India</li> <li>◦ Contemporary challenges in terrorism like religious indoctrination via social media</li> <li>◦ Left Wing Extremism and Insurgency in J&amp;K</li> <li>◦ Technological Dependence on Other Nations and its impact on India's technological security</li> <li>◦ Modernisation Fund for Defence and Internal Security</li> <li>◦ The Dark Web and associated Regulatory Challenges</li> <li>◦ Coastal Security challenges for India</li> <li>◦ Police Reform with Respect to Cyber Security</li> <li>◦ India's National Cyber Security Strategy</li> <li>◦ Big-Techs &amp; weaponisation of Internet</li> </ul> | <ul style="list-style-type: none"> <li>◦ India's Coastal Security &amp; its significance</li> <li>◦ AFSPA and the 'debate' on its need</li> <li>◦ Integration of Central Agencies with CCTNS</li> <li>◦ Inter-operable Criminal Justice System (ICJS)</li> <li>◦ Crypto currency and National Security</li> <li>◦ Terrorism, the biggest violator of 'human rights'</li> <li>◦ Medical devices and cyber-attack threats</li> <li>◦ Exclusive Economic Zone and India's Maritime Governance</li> <li>◦ Role of CAPF (paramilitary forces) in internal security</li> <li>◦ Frequent changes in anti-terror laws</li> <li>◦ Smart Fencing (Border Management)</li> <li>◦ Insurgency in North East</li> <li>◦ Money Laundering</li> <li>◦ Drug abuse problem in border areas</li> </ul> |
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# DISASTER MANAGEMENT

**□ Natural & Man-Made Disasters**

- Types of disasters
- India’s vulnerability profile
- Earthquakes
- Tsunamis
- Landslides
- Flood
- Drought
- Epidemics
- Nuclear Reactor explosion
- Dam collapse
- Gas Leakage
- Oil Spill
- Volcanic Eruption
- Forest fires

**□ Disaster Management, Preparedness & Mitigation**

- Management of disasters
- Community management
- Government initiatives to tackle disasters
- National disaster management act, 2005
- Global framework for disaster risk reduction
- Disaster Insurance
- Role of media in disaster management
- Gender implications of disasters
- Disaster management cycle
- Role of NGOs in disaster management
- Pre disaster preparation

## CONTEMPORARY ISSUES

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| <ul style="list-style-type: none"> <li>• Role of Science and Technology in Disaster Management</li> <li>• Pandemic preparedness fund</li> <li>• Disaster Induced Displacement</li> <li>• Urban Flood Management (to tackle frequent floods)</li> <li>• Disaster Risk Financing (G20)</li> <li>• India’s increasing climate vulnerability demands urgent disaster preparedness</li> <li>• India achieving Atmanirbharta in Disaster Management</li> </ul> | <ul style="list-style-type: none"> <li>• India’s Disaster Management Model through Turkiye’s case study</li> <li>• India’s Disaster Management: Joshimath Crisis</li> <li>• Prime Minister’s Ten Point Agenda on Disaster Risk Reduction</li> <li>• The Sendai Framework For Disaster Risk Reduction</li> <li>• Disaster Resilience- CDRI</li> <li>• National Policy on disaster management</li> </ul> |
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# ETHICS, INTEGRITY & APTITUDE

## □ Ethics Basic Introduction

- Dimensions of Ethics
- Essence of Ethics
- Approaches of Ethical Study as Indian Perspective and Western Perspective
- Basic concept of ethics morality and value
- Ethics in public life
- Ethics in Economic Life
- Freedom and Discipline
- Duties and Rights
- Virtue Ethics
- Consequences of Ethics in Human Actions
- Values and Ethics in Government:
- Contribution of Family in Value Education

## □ Human Values

- Human value & Socialization
- Individual Personality and Value
- Values and Skill
- Fundamental and Instrumental Values
- Democratic values
- Role of ethical value in governance and society
- Significance of value in Civil Services
- Contribution of Society in Inculcating Values
- Role of Educational Institutions in Inculcating Values
- Aesthetic values
- Values in work life and professional ethics

## □ Aptitude and foundational values of civil services

- Essential Aptitude for civil servants
- Foundational Values of Civil Services
- Neutrality
- Anonymity
- Civil Services Accountability
- Integrity
- Humility
- Adaptability
- Magnanimity
- Perseverance
- Impartiality and Non-Partisanship
- Tolerance and compassion for the weaker section
- Contribution to society

## □ India & World Thinkers/Leaders/ Administrators

- Mahatma Gandhi
- Dr. S. Radhakrishnan
- Rabindranath Tagore
- Swami Dayanand Saraswati
- Mahadeva Govinda Ranade
- Sri Aurobindo
- Swami Vivekananda
- Sardar Patel
- Buddha Bhim Rao Ambedkar
- Raja Ram Mohan Roy
- Chhatrapati Shahu Maharaj
- Mother Teresa
- Amitabha Chowdhury
- Aruna Roy

• T. N. Seshan	<input type="checkbox"/>	• Swami Vivekanand	<input type="checkbox"/>
• E. Sreedharan	<input type="checkbox"/>	• Albert Einstein	<input type="checkbox"/>
• Administrative Thinkers	<input type="checkbox"/>	• Abraham Lincoln	<input type="checkbox"/>
• Max Weber	<input type="checkbox"/>	• Mother Teresa	<input type="checkbox"/>
• Elton Mayo	<input type="checkbox"/>	• J. L. Nehru	<input type="checkbox"/>
• Peter Drucker	<input type="checkbox"/>	• Lee Kuan Yew	<input type="checkbox"/>
• Chester Barnard	<input type="checkbox"/>	• Henry Ford	<input type="checkbox"/>
• Mary Parker Follet	<input type="checkbox"/>	• Abdul Kalam	<input type="checkbox"/>
• Plato	<input type="checkbox"/>	• Muhammad Yunus	<input type="checkbox"/>
• Aristotle	<input type="checkbox"/>	• Wangari Maathai	<input type="checkbox"/>
• Socrates	<input type="checkbox"/>	• Kofi Annan	<input type="checkbox"/>
• Jeremy Bentham	<input type="checkbox"/>	• Lech Walesa	<input type="checkbox"/>
• JS Mill	<input type="checkbox"/>	• Desmond Tutu	<input type="checkbox"/>
• Thomas Hobbes	<input type="checkbox"/>	• Isaac Newton	<input type="checkbox"/>
• John Locke	<input type="checkbox"/>	• Elie Wiesel	<input type="checkbox"/>
• Jean Jacques Rousseau	<input type="checkbox"/>	• King Ashoka	<input type="checkbox"/>
• John Rawls	<input type="checkbox"/>	• Sun Yat Sen	<input type="checkbox"/>
• Immanuel Kant	<input type="checkbox"/>	<b>□ Attitude</b>	
• Carol Gilligan	<input type="checkbox"/>	• Components of Attitude	<input type="checkbox"/>
• Jean Paul Sartre	<input type="checkbox"/>	• Affective component	<input type="checkbox"/>
• Georg Wilhelm Friedrich Hegel	<input type="checkbox"/>	• Cognitive component	<input type="checkbox"/>
• Confucius	<input type="checkbox"/>	• Behavioral component	<input type="checkbox"/>
• René Descartes	<input type="checkbox"/>	• Functions of Attitude	<input type="checkbox"/>
• Karl Marx	<input type="checkbox"/>	• Adjustive Function	<input type="checkbox"/>
• Adam Smith	<input type="checkbox"/>	• Ego-Defensive Function	<input type="checkbox"/>
• Thomas Aquinas	<input type="checkbox"/>	• Value-Expressive Function	<input type="checkbox"/>
• David Hume	<input type="checkbox"/>	• Knowledge Function	<input type="checkbox"/>
• Democritus	<input type="checkbox"/>	• Attitude Formation Model	<input type="checkbox"/>
• Galileo	<input type="checkbox"/>	• Impact of Beliefs and Values	<input type="checkbox"/>
• Friedrich Nietzsche	<input type="checkbox"/>	• Group Influences	<input type="checkbox"/>
• Montesquieu	<input type="checkbox"/>	• Social Influence	<input type="checkbox"/>
• Voltaire	<input type="checkbox"/>	• Persuasion Tactics	<input type="checkbox"/>
• Thomas Jefferson	<input type="checkbox"/>	• Tools of Persuasion	<input type="checkbox"/>
• Benjamin Franklin	<input type="checkbox"/>	• Moral Attitude formation	<input type="checkbox"/>
• Martin Luther King	<input type="checkbox"/>	• Political Attitude formation	<input type="checkbox"/>
• Dalai Lama	<input type="checkbox"/>	<b>□ Emotional Intelligence</b>	
• Nelson Mandela	<input type="checkbox"/>	• Theories Associated with Emotional Intelligence	<input type="checkbox"/>
• Mahatma Gandhi	<input type="checkbox"/>	• Can Emotional Intelligence be Developed?	<input type="checkbox"/>
• Siddhartha Gautama	<input type="checkbox"/>		
• Aung San Suu Kyi	<input type="checkbox"/>		

<ul style="list-style-type: none"> <li>• Components of Emotional Competencies <input type="checkbox"/></li> <li>• The Self-Awareness Cluster: Understanding Feelings and Accurate Self-Assessment <input type="checkbox"/></li> <li>• The Self-Management Cluster: Managing Internal States, Impulses, and Resources <input type="checkbox"/></li> <li>• The Social Awareness Cluster: Reading People and Groups Accurately <input type="checkbox"/></li> <li>• The Relationship Management Cluster: Inducing Desirable Responses in Others <input type="checkbox"/></li> <li>• Importance of Emotional Intelligence at Workplace <input type="checkbox"/></li> <li>• Importance of Emotional Intelligence in <input type="checkbox"/> Civil Services <input type="checkbox"/></li> </ul>	<ul style="list-style-type: none"> <li>• Information Sharing, Transparency and Right to Information <input type="checkbox"/></li> <li>• Flaws in RTI and recommendations for improvement <input type="checkbox"/></li> <li>• Importance of vigilant citizens <input type="checkbox"/></li> <li>• Information sharing and participation <input type="checkbox"/></li> <li>• Importance of Code of ethics <input type="checkbox"/></li> <li>• Code of Ethics in Professions <input type="checkbox"/></li> <li>• Code of Conduct for Ministers; for Legislators; for Civil Servants; for Regulators and for the Judiciary <input type="checkbox"/></li> <li>• Components of a Citizen Charter <input type="checkbox"/></li> <li>• Steps in formulation of a Citizen's Charter <input type="checkbox"/></li> <li>• Concept of Work Culture <input type="checkbox"/></li> <li>• The Indian Approach to Work <input type="checkbox"/></li> <li>• Methods of improving Work Culture <input type="checkbox"/></li> <li>• Quality of Service Delivery <input type="checkbox"/></li> <li>• Utilisation of Public Funds <input type="checkbox"/></li> <li>• Problems in Fund Release and Utilization <input type="checkbox"/></li> <li>• Parliamentary Control on Expenditure <input type="checkbox"/></li> <li>• Corruption in India: extent, dimension, and response <input type="checkbox"/></li> <li>• Corruption as a Social Evil <input type="checkbox"/></li> <li>• Probity in public life Corrupt practice among civil servants and official misconduct <input type="checkbox"/></li> <li>• Exposing corruption: Civil Society initiatives and role of Whistleblower Act <input type="checkbox"/></li> <li>• Tackling corruption: Role of government and institutions of governance <input type="checkbox"/></li> <li>• Controlling corruption: Various approaches and efficacy <input type="checkbox"/></li> </ul>
<p><input type="checkbox"/> <b>Values &amp; Ethics in Public Administration</b></p> <ul style="list-style-type: none"> <li>• Ethical Concerns in Public Institution <input type="checkbox"/></li> <li>• Ethical Concerns in Private Institutions <input type="checkbox"/></li> <li>• Ethical Dilemmas in Public and Private Institutions <input type="checkbox"/></li> <li>• Laws, Rules and Regulations as Source of Ethical Guidance <input type="checkbox"/></li> <li>• Accountability and Ethical Governance Strengthening of Ethical and Moral Values in Governance <input type="checkbox"/></li> <li>• Moral Judgements in International Relations <input type="checkbox"/></li> <li>• Ethical Relation in Funding International Relations and concept of Moral Responsibility <input type="checkbox"/></li> <li>• Ethics in working of international organizations <input type="checkbox"/></li> <li>• What is Corporate Governance? <input type="checkbox"/></li> <li>• Models of Corporate Social Responsibility <input type="checkbox"/></li> <li>• Steps taken by World Bank for Good Corporate Governance <input type="checkbox"/></li> <li>• Norms for Corporate Government in India <input type="checkbox"/></li> <li>• Concept of business ethics <input type="checkbox"/></li> </ul>	<p><input type="checkbox"/> <b>Applied Ethics</b></p> <ul style="list-style-type: none"> <li>• Euthanasia Issue <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Social and Ethical Angle <input type="checkbox"/></li> <li>◦ Different arguments related to Euthanasia <input type="checkbox"/></li> <li>◦ Conclusion <input type="checkbox"/></li> </ul> </li> <li>• Surrogacy <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Case study <input type="checkbox"/></li> </ul> </li> </ul>
<p><input type="checkbox"/> <b>Probity in Governance</b></p> <ul style="list-style-type: none"> <li>• Concept of Public Service <input type="checkbox"/></li> <li>• Philosophical basis of Governance and Probity <input type="checkbox"/></li> </ul>	

<ul style="list-style-type: none"> <li>◦ Issues <input type="checkbox"/></li> <li>◦ Ethical Issues <input type="checkbox"/></li> <li>◦ Concept of ethical surrogacy <input type="checkbox"/></li> <li>◦ Conclusion <input type="checkbox"/></li> <li>● Ethics &amp; Sports <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Importance of sports <input type="checkbox"/></li> <li>◦ Ethical Issue: Need for sportsmanship <input type="checkbox"/></li> <li>◦ Ethical Issue: Doping <input type="checkbox"/></li> <li>◦ Ethical Issue: Discrimination and Sexual Harassment <input type="checkbox"/></li> <li>◦ Ethical Issue: Sports as a Business <input type="checkbox"/></li> <li>◦ Steps needed <input type="checkbox"/></li> </ul> </li> <li>● Media Ethics <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Role of Media <input type="checkbox"/></li> <li>◦ Ethical Issues faced by Reporters <input type="checkbox"/></li> <li>◦ Trial by Media <input type="checkbox"/></li> <li>◦ Media Prejudice <input type="checkbox"/></li> <li>◦ Ethical Dilemma faced by Photo Journalists <input type="checkbox"/></li> <li>◦ Digital Media Ethics <input type="checkbox"/></li> <li>◦ Paid News <input type="checkbox"/></li> </ul> </li> <li>● Business Ethics <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Principles of Business Ethics <input type="checkbox"/></li> <li>◦ Dimensions related to Business Ethics in Organisation <input type="checkbox"/></li> <li>◦ Business Ethics and Corporate Governance <input type="checkbox"/></li> <li>◦ Journey from Philanthropy to Corporate Social Responsibility <input type="checkbox"/></li> <li>◦ Issues related to Corporate Social Responsibility <input type="checkbox"/></li> <li>◦ Issues in implementation of Business Ethics <input type="checkbox"/></li> </ul> </li> <li>● Ethics Related to Economic Sanctions <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Why Economic Sanctions placed? <input type="checkbox"/></li> <li>◦ Ethics in Economic Sanctions <input type="checkbox"/></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>◦ Conclusion <input type="checkbox"/></li> <li>● Refugees &amp; Ethics <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Why Migration occurs? <input type="checkbox"/></li> <li>◦ Case study of Syria <input type="checkbox"/></li> <li>◦ Dilemmas related to Refugee crisis <input type="checkbox"/></li> <li>◦ Steps needed <input type="checkbox"/></li> </ul> </li> <li>● Ethical Dilemmas of Globalization <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ What is Globalization <input type="checkbox"/></li> <li>◦ Free trade in Globalized world <input type="checkbox"/></li> <li>◦ Issues with Newly developed trade patterns <input type="checkbox"/></li> <li>◦ Criticism against global regime <input type="checkbox"/></li> <li>◦ Way forward <input type="checkbox"/></li> </ul> </li> <li>● Ethics of War <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Ethics and War theories <input type="checkbox"/></li> <li>◦ Evils of war <input type="checkbox"/></li> </ul> </li> <li>● Environmental Ethics <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Linkage between Ethics and Environment <input type="checkbox"/></li> <li>◦ Theories related to Environmental ethics <input type="checkbox"/></li> <li>◦ Role of individual <input type="checkbox"/></li> </ul> </li> <li>● Ethical Issues in Biotechnology <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Issues related to Stem Cell <input type="checkbox"/></li> <li>◦ Issues related to cloning <input type="checkbox"/></li> <li>◦ Issues related to designer babies <input type="checkbox"/></li> </ul> </li> <li>● Animal Ethics <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Introduction <input type="checkbox"/></li> <li>◦ Issues of conducting research on animals <input type="checkbox"/></li> <li>◦ Issue of keeping animals as pets <input type="checkbox"/></li> <li>◦ Issue of Cruelty against animals <input type="checkbox"/></li> <li>◦ Conclusion <input type="checkbox"/></li> </ul> </li> <li>● Food Adulteration and Ethics <input type="checkbox"/> <ul style="list-style-type: none"> <li>◦ Ethical dimension <input type="checkbox"/></li> <li>◦ Ethical issue related to food additive <input type="checkbox"/></li> </ul> </li> <li>● Abortion: Ethical or Unethical <input type="checkbox"/></li> </ul>
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- |  |                          |  |                          |
|--|--------------------------|--|--------------------------|
| ◦ Law of abortion in India                     | <input type="checkbox"/> | ◦ Child labour and company                                       | <input type="checkbox"/> |
| ◦ Recent Supreme Court verdict                 | <input type="checkbox"/> | ◦ Solution   | <input type="checkbox"/> |
| ◦ Ethical Issue: Health of Women vs fetus      | <input type="checkbox"/> | ◦ Role of consumer   | <input type="checkbox"/> |
| ◦ Justification for abortion                   | <input type="checkbox"/> | • Ethical Issue Involved in Treating Juvenile as Adult           | <input type="checkbox"/> |
| ◦ Argument against abortion                    | <input type="checkbox"/> | ◦ Juvenile justice system  | <input type="checkbox"/> |
| ◦ Abortion and women rights                    | <input type="checkbox"/> | ◦ Negative implications  | <input type="checkbox"/> |
| ◦ Abortion and father rights                   | <input type="checkbox"/> | • Ethics and Old Age   | <input type="checkbox"/> |
| • Honour Killing                               | <input type="checkbox"/> | ◦ Ethical issues   | <input type="checkbox"/> |
| ◦ Honour killing is unethical                  | <input type="checkbox"/> | ◦ Issues faced   | <input type="checkbox"/> |
| ◦ Role of khap pachayat                        | <input type="checkbox"/> | ◦ Importance of autonomy   | <input type="checkbox"/> |
| • Marital Rape                                 | <input type="checkbox"/> | • Ethics in Public and Private Relationships                     | <input type="checkbox"/> |
| ◦ Why Marital Rape should not be criminalized? | <input type="checkbox"/> | ◦ Ethical values in Private Relationships                        | <input type="checkbox"/> |
| ◦ Why Marital Rape should be criminalized?     | <input type="checkbox"/> | ◦ Ethical principles in Public relationships                     | <input type="checkbox"/> |
| ◦ What are the hurdles?                        | <input type="checkbox"/> | ◦ Linkage between Private relationships and Public Relationships | <input type="checkbox"/> |
| • Ethical Issue Involved in Child Labour       | <input type="checkbox"/> |  |                          |
| ◦ Rights of children                           | <input type="checkbox"/> |  |                          |

## CONTEMPORARY ISSUES

- |   |   |
|---|---|
| ◦ Environmental Ethics                    | ◦ Abortion: Moral or Immoral                        |
| ◦ Ethical issues in child born out of IVF | ◦ Influence of Opinion poll                         |
| ◦ Work Ethics & Moonlighting              | ◦ Ethical dilemmas related to war (Just War Theory) |
| ◦ Ethics of public interest litigation    | ◦ Ethical issues in Surrogacy                       |





# SUCCESS IS A PRACTICE WE DO!



Being from family of Civil Servants, UPSC was a childhood dream for me. I express my humble gratitude towards GS SCORE for building my confidence in Civil Services Exam.

**ARANYAK SAIKIA** RANK 59

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