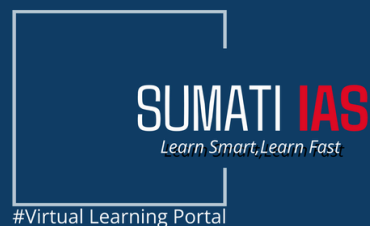


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SYLLABUS

SUBJECT-WISE-SYLLABUS

UPSC PRELIM 2025-26

- History, Geography Indian Polity and Governance, Economic and Social Development
Environmental ecology, biodiversity, General Science

UPSC MAINS 2025-26

- Indian Heritage & Culture, History, Geography of the World & Society.
- Governance, Constitution, Polity, Social Justice, International Relations .
- Economy, Science & Technology, Environment & Ecology, Disaster Management, Internal Security.
- Ethics, Integrity, and Aptitude

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- Geographical Distribution and Characteristics

INDUS VALLEY CIVILIZATION

- IVC Geography and Archaeological Findings
 - Major cities
 - Town Planning
- IVC Society and Culture
 - Script and Language
 - Crafts
 - Religions
 - Seals and Images
- IVC Economy
 - Harappan Trade
 - Agriculture
 - Domestication of animals
 - Weights and Measures
- Decline of Harappan Culture



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RIG VEDIC PERIOD

- Sources for Reconstructing Vedic Society and Culture
- Geography of the Rig Vedic Period - Area of Settlement
- Political Organisation and Evolution of Monarchy
- Social Organization
- Economy
- Religious Practices and Culture

LATER VEDIC PERIOD

- Geography of the later Vedic Phases - Area of Settlement
- Political System
- Social Organisation and Varna System
- Economy
- Religious Practices and Culture

JAINISM

- Birth and Life of Mahavira (540- 468 B.C.)
- Teachings of Mahavira
- Organisation and Sects of Jainism
- Literature of Jainism
- Councils, Spread and Royal Patrons

BUDDHISM

- Birth and Life of Buddha (563-483 BC)
- Teachings of Buddha
- Organisation and Sects of Buddhism
- Literature of Buddhism
- Councils, Spread of and Royal Patronage
- Causes for the Decline



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MAHAJANAPADAS PERIOD

- Republics and Monarchies
- 16 Mahajanapadas
- Magadha
- Key Dynasties
 - Haryanka dynasty
 - Shishunaga Dynasty
 - Nanda Dynasty
- Persian Invasions
- Alexander's Invasion
- Society and Rise of urban centres
- Economy
- System of Administration

MAURYAN EMPIRE

- Sources: Inscriptions and Sites and Literary Sources (The Arthashastra)
- Rulers and Political History of the Mauryas
 - Chandragupta and Bindusara
 - Megasthenes
 - Asoka and His Successors
- Asoka's Inscriptions and Sites
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- Asoka and Buddhism
- Asoka Policy of Dhamma
- Mauryan Administration
- Foreign Relations
- Decline of the Mauryas

POST-MAURYAN INDIA

- Society: Evolution of Jatis
- Satavahanas
- Sungas and Kanvas
- Sakas



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- Kushanas
- Kanishka

GUPTA PERIOD

- Sources of Gupta Rule
- Rulers and Political history of Guptas Chronology
- Foreign Travellers Visit – Fahien’s Visit
- Gupta Administration
- Other Important Dynasties
- Society Religion and Culture
- Urban centres in Gupta period
- Economy
- Science and Technology
- Literature
- Later Guptas
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HARSHAVARDHANA PERIOD

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- Harsha and Buddhism
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- Society and Culture
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SANGAM PERIOD (SOUTH INDIAN DYNASTIES)

- Sangam Literature
- South Indian Dynasties
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- Sangam Polity, Society and Culture
- Economy of Sangam Period
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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
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- 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
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- 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



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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
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- Attacks by Mongols and other Turks
- Administration
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STRUGGLE FOR EMPIRE IN NORTH INDIA (AFGHANS, RAJPUTS AND MUGHALS)

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- 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
- 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

- Social and Political Background of Bihar and the Rise of Sher Shah to Power
- The Sur Empire (1540-56)
- Contributions of Sher Shah
- Coinage
- Architecture

CONSOLIDATION AND EXPANSION OF THE EMPIRE – AKBAR

- Conflict with the Afghans - Hemu
 - 2nd Battle of Panipat
- Struggle with the Nobility: Bairam Khan's Regency; Revolt of Uzbek Nobles
- Early Expansion of the Empire (1560-76) - Malwa, Garh-Katanga, Rajasthan, Gujarat, Eastern India
- Relations with the Rajputs - Growth of a Composite Ruling Class
- Rebellions, and Further Expansion of the Empire in the North West

STATE AND GOVERNMENT UNDER AKBAR

- Akbar's Concept of Suzerainty
- Structure of Government, Central and Provincial -the Vikalat, the Central Ministries, Provincial Government, District and Local Government
- The Working of Government - the Ruler, Land-Revenue System, the Dahsala System, the Mansabdari System and the Army

AKBAR'S RELIGIOUS VIEWS

- Relations with the Ulama and Social Reforms
- The Early Phase (1556-73)
- The Second Phase (1573-80) - the Ibadat Khana
- Debates - the Mahzar - Breach with Orthodox Ulama - Re-organisation of Madadd-i-Maash Grants
- Third or Final Phase - Din-i-Ilahi - State Policies and religious toleration

THE DECCAN AND THE MUGHALS (UP TO 1657)

- The Deccani States up to 1595
- Mughal Advance towards the Deccan
- Mughal Conquest of Berar, Khandesh and Parts of Ahmadnagar
- Rise of Malik Ambar Mughal Attempt at Consolidation (1601-27)
- Extinction of Ahmadnagar, Acceptance of Mughal Suzerainty by Bijapur and Golconda



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- Shah Jahan and the Deccan (1636-57)
- Cultural Contribution of the Deccani States

FOREIGN POLICY OF THE MUGHALS

- Akbar and the Uzbeks
- The Question of Qandahar and Relations with Iran
- Shah Jahan's Balkh Campaign
- Mughal - Persian Relations - the Last Phase

INDIA IN THE FIRST HALF OF THE SEVENTEENTH CENTURY

- Jahangir's Accession - his Early Difficulties
- Territorial Consolidation and Expansion of the Empire - Mewar, East India and Kangra
- NurJahan, and the NurJahan 'Junta' The Rebellions of Shah Jahan, and the coup de main of Mahabat Khan
- Jahangir as a Ruler
- State and Religion in the First Half of the Seventeenth Century
- Shah Jahan - Consolidation and Expansion of the Empire
- Evolution of the Mughal Ruling Class and the Mansabdari System

CLIMAX AND CRISIS OF THE MUGHAL EMPIRE: THE MARATHAS AND THE DECCAN

- Rise of the Marathas - Early Career of Shivaji
- Treaty of Purandar - the Agra Visit
- Aurangzeb and the Deccani States (1658-87)
- Marathas and the Deccan (1687-1707)
- Assessment of Aurangzeb and the Jagirdari Crisis

THE MARATHA AND OTHER INDIAN STATES AND SOCIETY IN THE 18TH CENTURY

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- The Marathas and Nizam-ul-Mulk
- The Maratha Advance into Gujarat and Malwa
- The Maratha Advance into Doab and Punjab:
- First Phase (1741-52); Second Phase (1752-61);



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- Third Battle of Panipat
- Shivaji (1627-1680)
- Shivaji's administration
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- The Peshwas (1713-1818)
- Other Indian States (The Bhonsles, The Gaikwads, Holkars, Sindhiyas)
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VIJAYANAGAR EMPIRE

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NORTHERN INDIA IN THE FIRST HALF OF THE EIGHTEENTH CENTURY

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- Rajput Affairs
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- Struggle for 'New' Wizarat: Zulfiqar Khan and Jahandar Shah (1712-13)
- The Saiyid Brothers' Struggle for 'New' Wizarat
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- The Wizarat of M. Amin Khan and Nizam-ul-Mulk
- Rise of Regional States, Beginning of Foreign Invasions of India (1725-48)



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SOCIETY-STRUCTURE AND GROWTH

- Rural Society
- Towns and Town Life
- Artisans and Master-Craftsmen
- Women
- Servants and Slaves
- Standard of Living
- The Ruling Classes - Nobility, Rural Gentry
- The Middle Strata
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ECONOMIC LIFE-PATTERNS AND PROSPECTS

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Modern History

THE ADVENT OF EUROPEANS IN INDIA

- The Portuguese in India
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- Causes of failure of Portuguese empire in India
- The Dutch in India
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BRITISH EXPANSION IN INDIA

- Bengal
- Anglo Maratha Wars
- The Subsidiary Alliance System
- Second Phase of British Expansion In India
- The Conquest of Sindh
- Anglo-Sikh Wars
- Doctrine of Lapse
- Annexation of Oudh

ADMINISTRATION BEFORE 1857

- The Dual System
- The Charter Acts
- Judicial System



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- Impact of British Administration

ECONOMIC POLICIES OF THE BRITISH

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 - Administrative Causes
 - Socio -Religious Causes
 - Influence of Outside Events
 - Discontent Among Sepoy's
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- Leaders of the Revolt
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ADMINISTRATIVE CHANGES AFTER 1857

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Development of Civil Services

- Indian Civil Services Act, 1861
- Aitchison Committee on Public Services (1886)
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- Lee Commission (1924)
- Government of India Act, 1935

DEVELOPMENT OF EDUCATION

- Charter Act of 1813
- Orientalist-Anglicism Controversy
- Efforts of Thomson
- Wood's Dispatch (1854) Hunter Education Commission (1882-83)
- Indian Universities Act, 1904
- Government Resolution on Education Policy—1913
- Saddler University Commission (1917-19)
- Education Under Dyarchy
- Hartog Committee (1929)
- Wardha Scheme of Basic Education (1937)
- Sergeant Plan of Education
- Kothari Education Commission (1964-66)
- Development of Vernacular Education
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- Evaluation of British Policy on Education



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DEVELOPMENT OF PRESS

- Different Publications and Journals
- Acts related to Press
 - Vernacular Press Act, 1878
- Struggle by Early Nationalists to Secure Press Freedom ,
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- During the Second World War
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- Swami Vivekananda
- Swami Dayananda Saraswati
- Ishwar Chandra Vidyasagar
- Keshab Chandra Sen
- Sri Ramakrishna Paramhansa
- Mahadev Govind Ranade
- Annie Besant–Theosophical Society
- Syed Ahmad Khan
- Baba Dayal Das
- Pandita Ramabai Sarojini Naidu
- Jyotiba Phule
- Dr. Bhimrao Ramji Ambedkar

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 - Rampa Rebellion
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 - Tana Bhagat Movement
- Peasant Movements
 - Champaran Satyagraha
 - Kheda Peasant Struggle
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 - Moplah Rebellion
 - Tebhaga Movement
 - Telangana Movement

REVOLUTIONARY NATIONALISM

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- The Moderate Congress (1885-1905)
- Opinion Against Economic Exploitation Administrative Reforms Constitutional Reforms : Weaknesses & Evaluation
- The Extremist (1905-1920)
 - Terrorist Movements
 - The Revolutionary Movement
 - Reasons for Failure
 - Revolutionary Activities in Maharashtra
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 - Revival of Revolutionary Nationalism
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 - Revolutionary Activities Outside India
 - The Indian Independence Committee in Berlin
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INDIAN NATIONAL MOVEMENT – I (1905-1918)

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- Swadeshi Movement
- Muslim League, 1906
- Surat Session of INC, 1907
- Indian Council Act (Morley-Minto Act) 1909
- Ghadar Party, 1913
- Komagata Maru Incident 1914
- The Lucknow Pact (1916)
- Home Rule Movement (1915–1916)
- August Declaration, 1917

INDIAN NATIONAL MOVEMENT –II (1918-1929)

- World War I-Reforms and Agitation
- Champaran Satyagraha (1917)
- Ahmadabad Mill Strike (1918)
- Kheda Satyagraha (1918)
- The Government of India Act, 1919
- Rowlatt Act and Jallianwala Bagh Massacre (1919)
- Khilafat Movement
- The Non-Cooperation Movement (1920-22)
- Bardoli Resolution
- Nagpur Session of Congress
- Swaraj Party and its Evaluation
- Muddiman Committee (1924)
- Simon Commission (1927)
- Bardoli Satyagraha (1928)
- Nehru Report (1928)
- Jinnah's Fourteen Points
- Lahore Session, 1929
- Allahabad Address (1930)



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INDIAN NATIONAL MOVEMENT - III (1930-1947)

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- Karachi session of 1931
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- Third Round Table Conference (17 November 1932)
- Communal Award
- Poona Pact, 1932
- Government of India Act, 1935
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- Resignation of Congress Ministers (1939)
- Poona Resolution and Conditional Support to Britain (1941)
- August Offer of 1940
- The Individual Civil Disobedience
- Two-Nation Theory
- Demand for Pakistan (1942)
- Cripps Mission (1942)
- Quit India Movement
- Azad Hind Fauj
- Indian National Army
- N.A. Trials
- I.N. Rebellion
- Rajagopalachari Formula, 1945
- Desai - Liaquat Pact
- Cabinet Mission (1946)
- Wavell Plan
- Jinnah's Direct Action Resolution
- Mountbatten Plan of June 1947
- Indian Independence Act 1947

GOVERNOR GENERALS DURING BRITISH INDIA

- Governor of Bengal (Before 1773)
- Governor Generals of Bengal (1773-1833)
- Governor Generals of India (1832-1858)
- Viceroy and Governor Generals of India (1858-1947)



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LIST

- Robert Clive (1754-1767)
- Lord Warren Hastings (1773-1785)
- Lord Cornwallis (1786-1793)
- Sir John Shore (1793-1798)
- Lord Arthur Wellesley (1798-1805)
- Lord George Barlow (1805-1807)
- Lord Minto-I (1807-1813)
- Francis Rawdon Hastings (1813-1823): (Marques of Hastings)
- Lord Amherst (1823-28)
- Lord William Bentinck (1828-1835)
- Sir Charles Metcalfe (1835-1836)
- Lord Auckland (1836-1842)
- Lord Ellenborough (1842-1844)
- Lord Hardinge-I (1844-1848)
- Lord Dalhousie (1848-1856 great imperialist and colonist)
- Lord Canning (1856-1857 and 1858-1862)
- Lord Elgin-I (1862-1863)
- Lord Lawrence (1864-1869)
- Lord Mayo (1869-1872)
- Lord Northbrook (1872-1876)
- Lord Lytton (1876-1880)
- Lord Rippon (1880-1884)
- Lord Dufferin (1884-1888)
- Lord Lansdowne (1888-1894)
- Lord Elgin-II (1894-1905)
- Lord Curzon (1899-1905)
- Lord Minto-II (1905-1910)
- Lord Hardinge-II (1910-1916)
- Lord Chelmsford (1916-1921)
- Lord Reading (1921-1926)
- Lord Irwin (1926-1931)
- Lord Willingdon (1931-1936)
- Lord Linlithgow (1936-1944)
- Lord Wavell (1944-1947)
- Lord Mountbatten (1947-1948)



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CONSTITUTIONAL DEVELOPMENT IN INDIA

- Regulating Act 1773
- Pitts India Act of 1784
- Charter Act of 1793
- Charter Act of 1813
- Charter Act of 1833
- Charter Act of 1853
- Government of India Act 1858
- The Indian Councils Act 1861
- Indian Councils Act 1892
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- Government of India Act 1935
- Indian Independence Act, 1947

Modern History(Mains)

BEFORE EUROPEAN PENETRATION IN INDIA

- Later Mughals
- Disintegration of Mughal Empire
- Rise of Regional States
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 - Hyderabad and Carnatic
 - Awadh
 - Mysore
 - Kerala
 - The Sikhs
 - Rajput states and Jats
 - Marathas
- Rise and fall of Marathas
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- Cultural life of people in 18th Century
- Scientific outlook in 18th Century

BEGINNING OF EUROPEAN PENETRATION IN INDIA

- Trade between India and Europe
- Portuguese Domination
- Spice trade of Dutch
- British trade expansion in India and its effect on India from 1600-1744
- Anglo-French Struggle and Subversion of Indian political power

EXPANSION OF BRITISH EMPIRE IN INDIA 1756-1818

- British expansion in Bengal
- Importance of Battle of Plassey
- Clash between Mir Qasim and East India Company
- Dual system of administration in Bengal
- Wars under Warren Hastings and Cornwallis



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- Expansion under Lord Wellesley
- Subsidiary Alliance policy of Wellesley
- Expansion under Cornwallis
- Overpowering of Maratha Confederacy

CONSOLIDATION UNDER BRITISH RULE, 1818-1857

- Conquest of Sind
- Conquest of Punjab
- Policy of Annexation of Dalhousie

STRUCTURE OF BRITISH RULE IN INDIA

- End of Dual Government and Direct Administration of Bengal (From 1772)
- Relations between East India Company and British state between 1765-1833
- Regulating Act of 1773 and Pitts India Act
- Charter Act of 1813 and 1833

BRITISH ECONOMIC POLICY IN INDIA FROM 1757-1857

- Commercial Policy of British from 1757-1857
- Effect of Battle of Plassey on Indian Trade
- Effect of Industrial Revolution on Economic relations with India
- Factors that Make Britain Favorable for Industrial Revolution
- Drain of Wealth
- Development of Means of Transport and communication and industries
- Land Revenue Policy of British (Permanent, Ryotwari, Mahalwari)
- Effect of Land Revenue Policy on Agrarian relations in India

ADMINISTRATIVE POLICY OF BRITISH

- Civil Service in India
- Role of Army
- Police
- Judicial organization during British Rule
- Introduction of Rule of Law
- Equality Before Law

SOCIAL AND CULTURAL POLICY OF BRITISH

- Modern Thoughts that influenced British Policies in India
- Conservatives and Radicals
- Policy of partial modernization
- Humanitarian Measures (Abolition of Sati etc)
- Spread of modern education

SOCIAL AND RELIGIOUS REFORMS IN 19TH CENTURY

- Social and Religious reforms in 19th Century
- Role of Raja Ram Mohan Roy in social and religious regeneration
- Radical trend between 1820 & 1830 (Derozio)
- Ishwar Chandra VidyaSagar (Girl education, child marriage, widow remarriage and caste hierarchy)
- Why impact of western Ideas felt more in Bengal than in Western India
- Fight Against Caste System, Untouchability and Widow remarriage, Child marriage
- Parsi Reforms
- Sikh Reforms
- Role of women
- State of Education in India during 19th Century

REVOLT OF 1857

- Reasons for revolt of 1857
- Participation in Revolt
- Spread of Revolt
- Response of British
- Impact of Revolt of 1857
- Factors responsible for failure of Revolt of 1857

ADMINISTRATIVE CHANGES POST REVOLT OF 1857

- Government of India Act of 1858
- Indian council Act of 1861
- Role of Mayo, Lytton and Ripon
- Promotion of Local bodies and role of Ripon



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- Changes in Army
- Changed Relationship with Princely States
- Reactionary policy of British
- Divide and Rule
 - Restrictions on Press and Acts Related to it
 - Attitude towards social reform
 - Hostility towards educated Indians
 - Carrot and Stick policy
- Labor Legislations

ECONOMIC IMPACT OF BRITISH RULE

- Ruin of Traditional Economy
- Impoverishment of peasantry
- Ruin of old zamindars
- Rise of new Landlordism
- Deterioration of Agriculture
- Development of modern industries
- Rise of new social class in India
- Poverty and Famines
- Drain of Wealth theory

NATIONALIST MOVEMENT (1858-1905)

- Factors responsible for Rise of Nationalism
- Predecessors of Indian National Congress
- Indian National Congress
- Constitutional Reforms by Moderates
- Economic Reforms by Moderates
- Administrative and other reforms by Moderates
- Defence of Civil rights
- Method of Constitutional agitation of Moderates
- British Response
- Evaluation of role of moderates



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SOCIAL AND RELIGIOUS REFORM AFTER 1858

- Factors responsible for Religious reform of 19th Century
- Religious reforms in Maharashtra
- Swami Dayanand and AryaSamaj
- Raja Ram Mohan Roy
- Theosophical society
- Swami vivekanand
- Aligarh School of Thought
- Reform among Parsis
- Limitations of religious reform movement
- Movement to Improve position of Women
- Struggle Against Caste
- Effect of National Awakening on social reforms
- Social legislations in the 19th and 20th century

NATIONALIST MOVEMENT (1905-1918)

- Growth of militant Nationalism
- How militant nationalists different from moderates
- Swadeshi and Boycott Movement and participation from different sections
- Women Participation before Gandhi
- Growth of Revolutionary Terrorism
- Indian National Congress between 1905-1914
- Morley Minto Reforms
- Muslim league and growth of communalism
- British used Muslim league to fight rising nationalism
- Nationalist and World War I
- Home rule league movement
- Revolutionary Organization like Ghadar Party
- Lucknow session of 1916

STRUGGLE FOR SWARAJ

- Post world war scenario favorable for Nationalism
- Impact of Russian Revolution on National Movement
- Montague Chelmsford reforms



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- Rowlatt Act
- Arrival of Mahatma Gandhi and his ideas
- Champaran Satyagraha, Ahmedabad Mill strike
- Satyagraha against Rowlatt Act
- Jallianwala Bagh Massacre
- Khilafat movement and Non cooperation movement
- Impact of ChauriChaura Incident
- Role of Swarajists
- State peoples conference movements
- Rise of Socialism within congress
- Peasant, Tribal and workers agitation
- Socialist turn to Revolutionary terrorism
- Response of British to revolutionary terrorism
- Boycott of Simon Commission
- Nehru Report
- Significance of PoornaSwaraj Resolution
- Dandi March
- Programme of CDM (1930-34) and British response
- First Round table conference
- Gandhi-Irwin pact and second RTC
- Second phase of CDM
- Women Participation after coming of Mahatma Gandhi
- Communal Award
- Poona Pact and Mahatma Gandhi fast unto death
- Mahatma Gandhi and BR Ambedkar approach to caste and untouchability
- Third RTC

NATIONALIST POLITICS (1935-1939)

- Government of India Act, 1935
- Formation of Congress Ministries
- Growth of Socialist Ideas
- Congress and International Affairs

TOWARDS INDEPENDENCE

- National Movement in Princely States
- Growth of Communalism



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- National movement and World War II
- August Offer , 1940
- Individual civil disobedience movement (1940-41)
- Cripps Mission and Reasons for Failure
- Quit India Movement and British Response
- Women participation in end stages of freedom struggle
- Azad Hind Fauj and SC Bose
- INA Trials
- Wavell Plan and Shimla Conference
- 1945-46 elections and the communal divide
- RIN (Royal Indian Navy Mutiny)
- Labour and peasant Unrest all over Country
- Reasons Behind British Support for India's demand for freedom
- Cabinet Mission
- Towards Partition and independence
- Rise of Muslim communalism and partition of India
- The Indian independence Act July, 1947
- Role of Various Leaders
- Factors leading to Partition
- Why congress accepted partition of India

Indian Culture(Prelim)

VISUAL ARTS

- Architecture
 - Harappan Period
 - Mauryan Architecture
 - Post-Mauryan Period
 - Gupta Period
 - 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 Temples
 - Chola Period Temples
 - Pandya Temples
 - Vijaynagar Period Temples
 - Nayaka Temples
 - Temples of Kerala
 - Rashtrakuta Period Temples
 - Schools of Temple Architecture
 - Nagara Style
 - Vesara Style
 - Hoysala Style
 - Dravidian Style
 - Indo-Islamic Architecture
 - Imperial Style (Delhi Sultanate)
 - Provincial Style
 - Mughal Style
 - Sikh Style of Architecture
 - Avadh (Oudh) Style
 - Rajput Architecture

- Jaina Art
- Modern Architecture
 - European Influence
 - Portuguese
 - Danish
 - British
 - Indo-Saracenic Architecture
 - Post-Independence Period
- Sculptures
 - - Sculptures of Harappan Civilisation
 - Sculptures of Mauryan Age
 - Post-Mauryan Period
 - Jain Sculptures
 - Buddhist Sculpture
 - Gupta Sculpture
 - Medieval School of Sculpture
 - Modern Indian Sculpture
- Paintings
 - - Cave 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
 - - Ochre: Coloured Pottery(OCP)
 - Black and Red Ware (BRW)
 - Painted Grey Ware (PGW)
 - Northern Black Polished Ware (NBPW)
 - Glazed and Unglazed Pottery
- Numismatics
 -

-
- Coinage

PERFORMING ARTS

- Music in India
 - Classical Indian Music
 - Hindustani Music
 - Gharanas
 - Carnatic Music
 - Main Pillars of Indian Music
 - Forms of Indian Music
 - Musical Instruments
 - Institutions Related to Music in India
 - Folk Music
- Dances in India
 - Concept of Dance in India
 - Concept of Ashta Nayika
 - Rasa and Bhava
 - Eight Classical Dance Forms in India
 - Folk Dances
 - Modern Dances
- Sports in India
 - Various Type of Sports
 - Genesis of Martial Arts
 - Forms of Traditional Martial Arts
 - Animal Sports
- Indian Theatre
 - History of Theatre in India
 - Classical Sanskrit Theatre
 - Traditional Theatre
 - Regional Theatre
 - Modern Theatre in India
 - Renaissance of Indian Theatre
 - Cinema in India
 - History of Indian Cinema
 - Classification of Indian Cinema Film
- Indian Puppetry

- - - String Puppets
 - Shadow Puppets
 - Rod Puppets
 - Glove puppets
 - Modern Puppetry
 - Tribal Puppetry

RELIGION, LANGUAGE & LITERATURE

- Religions in-India
 - Pre-Vedic Religion
 - Hinduism
 - Buddhism
 - Jainism
 - Sikhism
 - Islam
 - Christianity
 - Zoroastrianism
 - Judaism
 - Philosophy in India
 - Bhakti Movement
 - Saints of Bhakti Movement
 - Sufism
- Languages and Literature in India
 - Classical Language
 - Sanskrit Literature
 - Pali Literature
 - Prakrit Literature
 - Tamil Literature
 - Telugu Literature
 - Malayalam Literature
 - Kannada Literature
 - Odia Literature
 - Assamese Literature
 - Bengali Literature
 - Gujarati Literature



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- Rajasthani Literature
- Punjabi Literature
- Marathi Literature
- Hindi Literature
- Persian Literature
- Urdu Literature
- Influence/Contribution of foreign languages & Literature to India language

MISCELLANEOUS

- Government Cultural Institutions in India
- UNESCO's List of Cultural Heritage in India
- Protection and Promotion of Indian Culture and Heritage :Legal Provisions
- Schemes and Awards
 - Awards and Honours Associated with Culture
 - International Yoga Day
 - Indian Handicrafts
- Personalities Related to Culture
- Places of Cultural Interest
- The Calendar & the Eras
- Science and Technology in Ancient India
- Recent developments
 - Important Festivals
 - Kheer Bhawani festival
 - Mahapushkaram
 - Bathu kamma
 - Manipur Sangai Festival
 - Losar festival
 - Intangible Cultural Heritage under UNESCO has inscribed 'Kumbh Mela'
 - Sankalp Parva-Sankalp se Siddhi'
 - Paryatan Parv
 - Bharat Parv
 - Orange Festival Nagpur
 - Protest against Sunburn fest
 - 2017 Teesta Rangit Tourism Festival
 - Ganga sagarmela
 - Nabakalebar Rath Yatra



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- Chapchar Kut Festival
- Hornbill Festival
- Wangala Festival
- Schemes for Cleanliness of Tourist Places
- Swachh Bharat Swachh Smarak
- 'Swachh Bharat Swachh Paryatan'
- Incredible India 2.0 Campaign
- Schemes for Development of Cultural Heritage
- Sanskriti App
- Cultural Mapping of India
- Schemes for Monument Development
- HRIDAY
- SWADESH DARSHAN
- PRASAD SCHEME
- AdarshSmarak Yojana
- Cultural Scheme Monitoring System
- Schemes for promotion of Culture
- Schemes for Serious Literature and Litterateurs
- National Mission on Monuments and Antiquities
- National Mission on Manuscripts
- Gandhi Heritage Sites Mission
- Muziris Heritage Site
- International Initiatives for Cultural Development and Recognition
- Project Mausam
- International Buddhist Conclave
- World's Heritage
- UNESCO inscribes Yoga in the representative list of Intangible Cultural Heritage of Humanity
- UNESCO Creative Cities Network
- UNESCO Global Geopark
- National Virtual Library of India
- Jallikattu
- Kambala
- GI Tag
 - Definition
 - GI vs. Trademark
 - Rights under GI
 - Famous Goods
 - Latest addition
- Rashtriya Ekta Diwas

Indian Culture(Mains)

CULTURE AND HERITAGE OF INDIA

- Aims and objectives of performing arts and their development through various stages.
- Utility of performing arts during the ancient and the medieval period.
- Appreciate the contribution of classical dances, folk music as well as folk dances in Indian culture and Challenges faced by performing Arts
- Development of drama through various phases in India and recognize the contribution of folk theatre
- Examine the importance of the three art forms in the development of human personality.
- Religious and secular Art in India

MUSIC

- Evolution of Indian Music
- Contribution of Some personalities : Amir Khusro, Mohammad Shah
- Hindustani Music evolution, features and impact
- Carnatic Music evolution, features and impact
- Hindustani and Carnatic music differences and similarities
- Regional music and its impact
- Modern Music

DANCE

- Tracing Evolution of Dance (Rig Veda, Harappa, Nataraja)
- Classical Dances of India, their evolution and Theme
- Well known Classical dancers of India.
- Themes in Indian folk dances

DRAMA

- Introduction (Natyashastra)
- Evolution of Drama in India
- Various texts relating to Drama period wise (ex Mahabhasya, mrichhakatika)
- Famous Modern Dramas and Dramatists.



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LANGUAGES & LITERATURE

- Vedic Literature
- Tamil language and Sangam Literature
- Classical languages : Evolution & impact on society
- Trends in Medieval Literature
- Modern Indian Literature

ARCHITECTURE IN INDIA

- Architectural Style of Harappan Civilisation
- Influence of Buddhism and Jainism on Indian architecture
 - Stupas, Chaityas and Viharas
- Impact of Persian and Greek invasion on Indian culture
- Mauryan Architecture (322-182 BC)
- Post Mauryan Architecture
- Gandhara and Mathura school of Art
- Cultural development during Gupta Age
- Temple Architecture and Sculptures
 - Nagara and Dravida Styles
 - Early Temples
 - Rock Cut temples
 - Monolithic Temples
 - Free Standing Temples
- Pallavas as great temple builders
- Emergence of Nalanda as centre of learning
- Medieval Period architecture
 - Delhi Sultanate
 - Regional Kingdoms (Mandu, Jaunpuretc)
 - Vijaynagara Architecture
 - Mughal Architecture
- Indo Islamic Architecture
- Colonial Architecture
- Utility of Architectural structures today and in Past
- Conservation and Preservation of Architectural Structures
- Spread of Indian Culture to Southeast Asia

BRONZE SCULPTURES IN INDIA

- Harappan "Dancing Girl"
- Jain Tirthankaras Bronze Images
- Buddha bronze Images (ex Guptas and Vakatakas)
- Pala school of Art (Bronze images, Manuscripts)
- Pallava Bronze Images
- Chola Bronzes
- Nataraja

PAINTINGS IN INDIA

- Prehistoric Rock Paintings
- Ancient Period
 - Murals Paintings
 - Bagh Caves
 - Sittanavasal Paintings
 - Armamalai caves
- Medieval Period
 - Pala school of miniature paintings
 - Mughal miniature paintings (synthesis of Indian and Persian style)
 - Role of Akbar and his successors
 - Development of Pahari, Rajput and Deccan Paintings
 - Theme of paintings in Medieval period
- Modern Period
 - Bengal school of Art
 - Renaissance or revivalist painting
 - Madras School of Art
- Decorative Art
 - Madhubani
 - Kalamkari
 - Kalighat
 - Warli
 - Pattachitra
 - Theme of decorative paintings in India
- Theatre Forms of India
 - Significance of Traditional folk theatre in India
 - Different forms of traditional folk theatre in India



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- Sanskrit theatre in India
 - Challenges faced by theatre in India
- Puppet forms in India
 - Themes of puppetry in India
 - Forms of Puppetry
- Religious Philosophies
 - Buddhism and its impact
 - Jainism and its impact
 - Sufism and its impact
 - Vedanta Philosophy
- Bhakti Traditions

Post Independence(Mains)

CHALLENGES BEFORE INDIA AFTER INDEPENDENCE

- Communal Riots and Regions most affected
- Partition and then Independence: Punjab, Bengal and Assam, Sindh
- Radcliff Commission and challenges before boundary commission
- Radcliff Commission and its composition
- Drawbacks of Commission
- Division of sources
- Finances
- Defence personnel and equipment
- Civil government
- Assassination of Gandhi
- Resettlement and Rehabilitation of Refugees
- Shift to Constitutional Democracy

THE INDIAN STATES

- Policy of Equal Federation (1935-1947)
- Plan of consolidation
- Integration of Princely States: Junagadh, Kashmir and Hyderabad
- Aftermath of Integration
- Goa and Pondicherry
- Tribal Integration
- Roots of India Tribal Policy
- Reasons for dismal performance of Tribal Policy
- Positive Development happened due to state's Initiative since 1947
- Issue of language
- The Official Language
- Features of Official Language Act



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FRAMING OF THE CONSTITUTION OF INDIA

- Evolution of the Constitution and main provisions
- Steps to the Constitution
- Constitutional Developments
- The Indian Constitution: Main Provisions
- The Constituent Assembly
- Formation of the Constituent Assembly
- Compulsions and Issues in front of Assembly

FROM COLONY TO DEMOCRACY

- Challenge of building democracy
- Challenges before ECI and conduction of first general election
- Starting of one party dominance
- Dominance of Congress System
- Nature of Congress Dominance
- 1967 elections
- Split in the Congress
- Emergence of Opposition Parties
- Role of opposition parties
- Various opposition parties

ECONOMIC CONSOLIDATION

- Economic Development and Planning
- Ideas of Development
- Planning
- Formation of Planning Commission
- First five year plan
- Second five year plan
- Achievements of Plans from 1947 to 1965
- Key controversies regarding 5 year plans
- Green Revolution
- Prevailing Conditions before the introduction of Green Revolution
- Initiatives prior to Green Revolution to boost Agriculture
- Government's other positive initiative during Green Revolution Period

- Positive and negative impact of Green Revolution
- Operation Flood and Cooperatives
- Formation of Amul
- Starting and impact of Operation Flood
- Limitations of Co-operativization
- Development of land reforms in India between 1947 and early 1960's
- Abolition of intermediaries
- Tenancy reforms
- Ceiling on land holdings
- Bhoodan Movement
- Aims and advantages of Bhoodan movement

INDIA'S EXTERNAL RELATIONS

- Evolution of India's Foreign Policy
- Strategic Issues
- Features of Indian Foreign Policy
- Emergence of NAM and its Summits
- Organizational structure & membership
- India and its neighbours
- India and China
- India and Pakistan (Indo-Pak War, Kargil War, Shimla Agreement, Tashkent Declaration and Agra Summit)
- India and Bangladesh (Creation of Bangladesh)
- India and Sri Lanka
- India with Nepal and Bhutan
- India's relations with USA and USSR during cold war
- Analysis of Nehruvian Foreign Policy

THE CRISIS OF DEMOCRATIC ORDER

- The JP movement and Emergency 1975-77: Testing of Indian democracy tested
- Background to emergency (Economic context, Gujarat and Bihar movements, Conflict with Judiciary)
- Declaration of emergency (Crisis and Response)
- Controversies regarding emergency
- Lessons from emergency
- Politics after Emergency (LS elections 1977 and Janata Party)
- The Opposition: Initial years of BJP

- The Naxalite Movement
- Communalism
- Secularism and democracy
- Ayodhya dispute: Demolition and after
- Communalism and use of state power
- Revival and growth of communalism
- Anti-muslim riots in Gujarat
- The Punjab Crisis
- Operation Blue Star
- Demand of Khalistan
- Basis of Regionalism: Politics in the states
- Roots of tension
- Challenges of Regionalism
- Tamil Nadu (Dravidian Movement), Andhra Pradesh, Assam, West Bengal and J&K (external and internal disputes)
- Secessionist movement in North-Eastern states
- Accommodation and National Integration

POPULAR MOVEMENTS

- Nature of Popular Movements
- Environment Movements
- Chipko Movement
- Narmada Bachao Andolon (Sardar Sarovar Project, Debates and struggles)
- Party based Movement and Non-party based movements
- Caste, Untouchability, Anti-caste politics and strategies
- Issues of Dalit
- Dalit panthers: Origin and their activities
- Agrarian Struggles
- Bharatiya Kisan Union: Growth and its characteristics
- National Fish Worker's Forum
- Anti-Arrack Movement: Origin and its linkage
- Indian Women since Independence
- Lesson from popular movements



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RECENT DEVELOPMENTS IN INDIAN POLITICS

- Context of the 1990s
- Era of Coalition
- Decline of Congress
- Alliance politics
- Political Rise of other Backward Classes
- Mandal Implemented: The Mandal Commission
- Political fallouts
- NEP-1991, LPG policy, Tax reforms, Privatisation, Globalisation and ICT
- Nuclear policy
- Emergence of new consensus
- LS Elections 2004
- Terrorist troubles and relations with Pakistan



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World History

INDUSTRIAL REVOLUTION

- Decline of feudalism
- Beginning of Renaissance
- Pre-industrial Europe
- Factors that led to industrial revolution and its Impact

FRENCH REVOLUTION

- Causes of the revolution in France
- France under Napoleon
- Impact and Significance of revolution

NATIONALISM IN EUROPE

- Rise of the nation- state system
- Unification of Italy and Germany

COLONIALISM AND IMPERIALISM

- Colonialism and its Analysis
- The age of Imperialism (1870-1914)
- Imperialism in Asia

EMERGENCE OF USA

- Foundation of American Colonies
- The Independence of USA
- The American Revolutionary War and its impact
- Political Effects of the Revolution
- How did the American Revolution influence the French Revolution?



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WORLD WAR-I

- Causes and Course of the war
- Consequences of World War I
- Aftermath of World War I
- League of Nations

RUSSIAN REVOLUTION

- Major events in pre-revolution Russia
- Causes and Course of revolution
- Consequences and Aftermath of the war
- Post-Lenin Russia

INTER-WAR YEARS (1919 TO 1939)

- The Great Depression- an economic perspective
- Rise of Fascism in Italy & Nazism in Germany
- Soviet Union (USSR)

WORLD WAR- II

- Causes & Course of the war
- Aftermath & Analysis of the war
- Decolonization Phase

DEVELOPMENT IN MIDDLE EAST

- Democratic reforms in Middle East
- Arab nationalism
- Israel and Palestine

COLD WAR ERA

- Impact in India



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- Indian Policy

POST COLD-WAR WORLD

- Global issues since 1991
- Integration of Europe
- Rise of global Islamic terrorism
- Rise of China

COMMUNISM, SOCIALISM AND CAPITALISM

- Capitalism (concept, types and example)
- Communism (concept, types, example)
- Relevance of capitalism in present era

Contemporary Issues

POLITY

- Reorganisation of States
- Emergency in India
- Linguistic Regionalism in India.
- Lok Sabha Elections 2014 and 2018.

ECONOMY

- Agriculture since 12th five year plan
- Industry since 12th five year plan
- New Economic Policies and its Impact

SOCIAL ISSUES RELATED TO VULNERABLE SECTION

- Tribal Issue and Policy Consolidation
- Issue of Women and Evolution of Women Movement
- Agrarian Struggles
- Problem of Caste and Social Consolidation
- Communalism Secularism and Social Consolidation
- Regionalism Issues in India
- Issue of Linguistic Minorities
- Environmental Movements

Geography(Prelim)

GENERAL GEOGRAPHY

- Universe
 - Theories of development of Universe
 - Galaxy
 - Star formation
 - Planet formation
 - Solar system
 - Moon
 - Asteroid
 - Meteor
 - Kuper belt
 - Comets
 - Dwarf planets
- Earth Evolution
 - Geological History of Earth
 - Evolution of the Earth Layered Structure
 - Evolution of Lithosphere
 - Evolution of Atmosphere
 - Evolution of Hydrosphere
 - 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
 - Time Zones, Local and Standard Time and the International Date Line, Calendar
 - Eclipses - Solar, Lunar
 - Earth's magnetic field
 - Earth's Geological time scale
 - ORIGIN of LIFE

GEOMORPHOLOGY

- Earth's Interior
 - Interior of the Earth
 - Crust

- Mantle
 - Core
 - Sources of Information
 - Direct
 - Indirect - Earth Quake Waves Volcanoes
 - Theories – Suess Theory
- **Geology and Rock system**
 - 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
- **Geomorphic Processes**
 - Earth's Surface
 - Exogenic Forces
 - Endogenic Forces
 - Gradation , Degradation & Agradation
 - Endogenic Forces
 - Diastrophism
 - Orogenic
 - Epierogenic
 - Earthquakes
 - Plate movements
 - Volcanism
 - Exogenic Forces
 - Denudation Processes
 - Weathering
 - Mass movements
 - Erosion Transportation & Deposition

- Earthquakes and Volcanism
 - Earthquakes
 - Waves: P,S, Body, Surface,
 - Shadow Zone
 - Types of Earthquakes
 - Effects
 - Frequency
 - Locating an Epicentre
 - Volcanism
 - Types
 - Shield
 - Composite
 - Caldera
 - Flood Basalt
 - Mid Ocean Ridge
 - Landforms (intrusive)
 - Batholiths
 - Lacoliths
 - Lopoliths
 - Phacoliths
 - Sills
 - Dykes
- Distribution of Continents & Oceans
 - Theories
 - Continental Drift Theory
 - Alfred Wegner
 - Pangea, Panthalasa
 - Laurasia, Gondwanaland
 - Evidence in support of Continental Drift Theory
 - Jigsaw Fit
 - Rocks of Same age across oceans
 - Tillite
 - Placer Deposits
 - Distribution of Fossils
 - Isostasy
 - Sea Floor Spreading
 - Forces of Drifting
 - Pole Fleeing Force
 - Tidal Force

- Post Drift Studies
- Convectional Current Theory
- Mapping of the Ocean Floor
- Plate Tectonics
 - Lithospheric Plates - Major Plate - Minor Plates
- Plate Boundaries – Divergent – Convergent – Transform
- Rates of Plate Movements
- Force of plate movement
- Indian Plate
- Landforms and their evolution
 - Causes
 - Geomorphic Processes
 - Geomorphic Agents
 - Geomorphic Agent
 - Erosional or Destructional
 - Depositional or Constructional
 - Agents and their Impacts - Wind, Running Water, Ground Water, Glaciers, Waves & Currents
 - Winds
 - As agents in Hot deserts
 - Cause – Deflation Abrasion Impact
 - Erosional landforms
 - Pediments and Pediplains
 - Playas
 - Deflation Hollows and Caves
 - Mushroom , Table & Pedestal Rocks
 - Depositional Landforms
 - Barchans
 - Seif
 - Parabolic
 - Transverse
 - Longitudinal
 - Running Water
 - Erosional Landforms
 - Valleys
 - Rills
 - Gullies
 - Valleys – V Shape , Gorge (Hard Rocks), Canyon (Sedimentary)
 - Potholes & Plunge pools
 - Incised or entrenched meanders

- River Terraces – paired & unpaired
- Depositional Landforms
 - Alluvial Fans
 - Delta
 - Flood plains, Natural Levees, Point Bars
 - Meanders, Slip off bank, Under cut bank
 - Oxbow lake
 - Braided Channels
- Ground Water (Karst Topography)
 - Permeable Rocks
 - Percolation
 - Bedding Plains
- Limestone and Dolomite Regions
 - Balkans , Adjacent to Adriatic regions
- Erosional Landforms
 - Pools - Swallow Hole, Valley Sinks (Uvalas), Sinkholes, Collapse sinks (Dolines), Lapies, Ridges, Limestone Pavements
 - Caves – Altering bed of Rocks (Shale sandstone quartzit, Caves and Tunnels)
- Depositional landforms
 - Stalactites
 - Stalagmites
 - Pillar Columns
- Glaciers
 - Erosional Landforms
 - Cirque of Tarn Lakes
 - Hors and Serrated Regions – Arete
 - Glacial Valleys / Troughs – Fjords
 - Depositional Landforms
 - Glacial Tills
 - Moraines
 - Eskers
 - Outwash Planes
 - Drumlins
- Waves and Currents
 - High Rocky Coasts & Low Sedimentary Coasts
 - Erosional Landforms
 - Cliffs
 - Terraces

- Caves
 - Stacks
 - Depositional Landforms
 - Beaches and Dunes
 - Bars, Barriers, Spits
- Weathering
 - Factors
 - Geological
 - Climatic
 - Topographic
 - Vegetative
 - Major Processes
 - Chemical
 - Physical or Mechanical
 - Biological
 - Chemical – Forces Chemical Action
 - Solution
 - Carbonation
 - Hydration
 - Oxidation & Reduction
 - Physical Forces Gravitational, Expansion, Water Pressure
 - Unloading & Expansion
 - Temperature changes and Expansion
 - Freezing, Thawing, & Frost Wedging
 - Salt Weathering
- Biological Weathering
 - Burrowing
 - Wedging
 - Plant Roots
- Effects of Weathering
 - Exfoliation (Flakin) – Exfoliation Domes
- Significance of Weathering
 - Soil Formation
 - Biomes and Biodiversity
 - Leaching / Enrichment
- Mass Movements
 - Activating causes
 - Forms of movement – Heave Flow Slide
- Landforms across the world

- Rivers and lakes (Factual)
- Mountain and Peaks (Factual)
- Plateaus (Factual)

OCEANOGRAPHY

- Hydroshpere
 - Water on the Surface of the Earth
 - Hydrological Cycle
 - Component
 - Processes
- Submarine Relief Features
 - Oceans
 - Relief of the Ocean floor
 - 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
 - Guyouts
 - Volcanic Islands
 - Fracture Zones
 - Hotspots
 - Coral Islands
 - Atoll
- Temperature and Salinity
 - Temperature of the Ocean Water
 - Vertical
 - Spatial
 - Factors affecting Temperature distribution
 - Latitude
 - Unequal distribution of land & Water
 - Prevailing wind
 - Ocean Currents

- Horizontal & Vertical Distribution
- Salinity of the Ocean Water
 - Factors affecting salinity
 - Evaporation and precipitation
 - Fresh water flow from rivers
 - Ocean currents
 - Horizontal distribution of salinity
 - Vertical Distribution of salinity
 - Density of Ocean Waters
- Waves, Ocean Currents, Tides
 - Movements of ocean Water
 - Factors influencing Movement
 - Temperature
 - Salinity
 - Density
 - Motion – Horizontal and Vertical Currents
 - Waves
 - Motion of waves and water molecules
 - Characteristics of wave
 - Crest and Trough
 - Height
 - Amplitude
 - Period
 - Length
 - Speed
 - Frequency
 - Tides
 - Relation between Gravitational Forces and Tides
 - Tidal currents
 - Types of Tides
 - Based on Frequency – Semi Diurnal, Diurnal, mixed
 - Based on SME position – spring and Neap Tides
 - Importance of Tides
 - Ocean Currents
 - Primary Force that initiates the movement
 - Heating of solar energy
 - Wind
 - Gravity
 - Coriolis force

- Secondary force that influence the currents to flow
- Types of ocean currents:
 - Surface currents & Deep water currents based on Depth
 - Cold and Warm Currents based on Temperature
- Major Ocean currents of the World
- Effects of Ocean Currents
- Marine Resources
 - Underground water resource
 - Surface water resources
 - Inland water resources: Utilization of inland water resources
 - Oceanic Water Resources (Marine Resource)
 - Utilization of oceans by man
 - Water consumption patterns
 - Conservation of Water Resources
 - Techniques of Water Conservation
- Ocean Deposits and Corals
 - Terrigenous Deposits
 - Volcanic Deposits
 - Biotic deposits
 - Neritic
 - Pelagic (Calcereous , Siliceous)
 - Abiotic Deposits
 - Coral Reefs
 - Great Barrier Reef

CLIMATOLOGY

- Atmosphere
 - Composition
 - Gases
 - Water Vapour
 - Dust Particles
 - Structure
 - Exosphere
 - Thermosphere
 - Mesosphere
 - Stratosphere
 - Troposphere

- Altitude vs. Temperature
- Inversion of Temperature
 - Temperature
 - Factors controlling Temp distribution
 - Distribution of Temp Month of January-July
 - Range of Temp Month of January-July
 - Inversion of Temperature
- Insolation and Heat Budget
 - Solar Radiation Heat Balance Temperature Insolation
 - Aphelion and Perihelion
 - Variability of Insolation at the surface of the Earth
 - Day Season Year
 - Rotation on Axis, Angle of Inclination of sun rays, Length of the day
 - 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
- Winds and Pressure belts
 - 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
- Seasonal Wind
- Local Wind
- Land and Sea Breezes
- Mountain and Valley Winds
- Air Mass, Fronts, Cyclones and Jet Stream
 - Air mass & fronts
 - Cyclones
 - Thunderstorms
 - Tornadoes
 - Monsoons
 - Fronts
- Precipitation
 - 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, Altocumulus
 - Low – Stratocumulus, Nimbostratus
 - Vertical Development – Cumulus and Cumulonimbus
 - Precipitation
 - Rainfall, Snowfall, Sleet Hail, Hailstones
 - Types of Rainfall
 - Conventional
 - Orographic
 - Cyclonic

- World Distribution of Rainfall
- Climatic Zones of the World
 - Koppene's Classification Climatic Zones
 - 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 (Lauren-tian) Climate
 - The Arctic or Polar Climate

BIO-GEOGRAPHY

- Soil Characteristics
 - 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

HUMAN AND ECONOMIC GEOGRAPHY OF THE WORLD

- Demography and Census
 - Concept of human resources
 - Factors affecting the distribution of Population
 - Geographical Factors
 - Availability of water
 - Landforms
 - Climate
 - Soils
 - Economic Factors
 - Minerals
 - Urbanisation
 - Industrialisation
 - Socio-cultural factors
 - Population Growth
 -
 - Growth of Population
 - Growth Rate of Population
 - Natural growth of Population
 - Positive Growth of Population

- Negative Growth of Population
- Components of Population change
 - Crude Birth Rate
 - Crude Death Rate
 - Migration – Place of Origin and Place of Destination
 - Immigration
 - Emigration
 - Push Factors and Pull Factors
- Trends in Population Growth
- Doubling time of world population
- Spatial pattern of Population change
- Impact of Population Change
- Demographic Transition
 - Demographic Transition Theory
 - Demographic Cycle
- Theories of population growth
 - Malthusian theory
 - Marxian theory
 - Demographic Transition Theory
 - Optimum population
 - Over-population
 - Under-population
- Population Control Measures
- World population distribution, Density and Growth
 - Continent-wide distribution of population
 - Pattern of population density globally
 - Population increase in the world
- Population Composition
 -
 - Sex composition
 - Sex Ratio
 - Natural Advantage vs Social Advantage
 - Age Structure
 - Age – sex Pyramid
 - Expanding Populations
 - Constant Population
 - Declining Population
 - Literacy – literacy Rate
 - Rural Urban Composition

- Occupational Structure
 - Religion based Composition
- Population problems
 - Population problems of developing countries
 - Population problems of developed countries
 - Population Policies: of China, of India
- Census 2011
 - Census Terminologies
 - Census of India important information
- Human Development
 - Growth vs Development
 - The four pillars of Development
 - Equity
 - Sustainability
 - Productivity
 - Empowerment
 - Approaches to Human Development
 - Measuring Human Development
 - Income Approach
 - Welfare Approach
 - Basic Needs Approach
 - Capability Approach
 - Internation Comparisons of Human Development
- Economic Activities
 - Primary Activities
 - Hunting and Gathering Pastoralism
 - Nomadic Herding
 - Commercial livestock Rearing
 - Agriculture
 - Subsistence Agriculture
 - Primitive Subsistence Agriculture
 - Intensive Subsistence Agriculture
 - Planation Agriculture
 - Extensive Commercial Grain Cultivation
 - Mixed Farming
 - Dairy Farming
 - Mediterranean Agriculture
 - Viticulture
 - Market Gardening and Horticulture – Truck Farming

- Cooperative Farming
 - Collective Farming
- Mining
 - Factors affecting Mining
 - Methods of Mining – Open Cast and underground mining
- Secondary Activities
 - Manufacturing
 - Characteristics of Modern large scale Manufacturing
 - Specialisation of Skills/ methods of Production, Mechanisation - Technological Innovation
 - Access to market, Access to labour Supply, Access to Sources of Energy, Access to Transportaion and communication Facilities
 - Government Policy
- Classification of Manufacturing Industries
 - Industries based on size
 - Small Scale manufacturing
 - Large Scale manufacturing
 - Industries based on Inputs/Raw Materials
 - Agro Based industries
 - Mineral Based Industries
 - Chemical based Industries
 - Forest based Raw material using industries
 - Animal Based industries
 - Industries based on Output/Product
 - Industries based on ownership
- Tertiary, Quaternary and Quinary Activities
 - Types of Tertiary Activities
 - Retail trading
 - Trade and commerce
 - Wholesale Trading
 - Transport
 - Communication
 - Services
 - People engaged in tertiary Activities
 - Tourism
 - Medical Services
 - Quaternary Activities
 - Quinary Activities
 - Concept of Digital Divide
- Transport and Communication

- Transport
 - Modes of Transportation
 - Land Transport
 - Roads
 - Railways
 - Water Transport
 - Sea Routes
 - Inland Waterways
 - Air Transport
 - Pipelines
- Communications
 - Satellite communication
 - Cyber space internet
- International Trade
 - History of international Trade
 - Basis of International Trade
 - Difference in national resources
 - Population Factors
 - Stage of Economic Development
 - Extent of Foreign Investment
 - Transport
 - Important aspects of International Trade
 - Volume of Trade
 - Composition of Trade
 - Direction of Trade
 - Balance of Trade
 - Types of International Trade
 - Case of Free Trade
 - WTO – World Trade Organisation and Regional Trade Blocs
 - Gateways of International Trade
 - Ports
 - Industrial Ports
 - Commercial Ports
 - Comprehensive Ports
 - Inland Ports
 - Out Ports
 - Oil Ports
 - Port of call
 - Packet station

- Entrepot Ports
- Naval Ports
- Settlement
 - Types and Patterns of settlements
 - Compact of Nucleated Settlements
 - Dispersed settlement
 - Rural Settlements
 - Factors affecting location of rural settlements
 - Patterns of Rural settlements
 - Urban Settlements
 - Classification of Urban Settlements
 - Factors affecting location of rural settlements
 - Functions of Urban Centre
 - Classification of Towns on the basis of Forms
 - Types of Urban Settlements
 - Town, City, Conurbation, Megalopolis, Million City
 - Issues of Urbanization in India
 - Rural Urban Migration
 - Emergence of Slums
 - Inclusive Cities/Smart cities

INDIAN GEOGRAPHY

- Physiography of India
 - Geological Region
 - Location
 - Physiographic Sub-Units
 - Himalayans
 - Northern Plains
 - Peninsular Plateau
 - Thar Desert
 - Coastal Plain
 - The Islands
 - Mountain System
 - Classification of The Himalayan System
 - Regional Division of the Himalaya
 - The Peninsular - Peninsular Plateaus
 - Plains - Northern Plains of India

- Lakes
 - Deserts
 - Indian Coasts and Islands
- Drainage System
 - Classification of Drainage
 - Himalayan Drainage
 - Indus river system
 - Indus drainage system
 - Ganga River System
 - Brahmaputra river system
 - Peninsular River System
 - East flowing Rivers
 - West flowing Rivers
 - Mains Rivers and their tributaries
 - Famous cities and river banks
- 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
 - Seasonal rhythm
 - Koppen's Climatic classification
 - Indian Droughts and Floods
- Soils in India
 - Soil Acidity
 - Soil textures
 - Minerals of Soil
 - Soil Erosion
 - Soil Conservation
- Natural Vegetation
 - Vegetation
 - Mangroves
 - Distribution of Forest Area
 - Forest Problems in India
- Population

- Size, growth rate and distribution of population
- India in World Population
- Demographic transition
- Census in India
- Ranking of States and Union
- Territories by population: 2001 & 2011
- Population Growth Rates
- Population: States and UT
- Decadal growth rate
- National Population Policy
- Density of population
- Literacy
- Literacy in major states
- Literacy rate in India: 1951-2011
- Ranking of States and UTs by 206 literacy rate: 2011
- Gender composition of the Population
- Trends in Sex Ratio in India
- Child sex ratio in age group 0-6 yrs
- Sex ratio of age 7 years and above population
- Old Age People
- Health Indicators
- Settlements and Urbanization
 - Rural Settlements
 - Factors affecting settlement patterns
 - Settlement types
 - Urbanization
 - Urban Agglomeration / Cities
- Land Resource
 - Land-use
 - Land capability classification
 - Causes of Land Degradation
 - Impact of Land Degradation
 - Steps taken by GOI
 - Sustainable Land Management
- Mineral Resource
 - Types of minerals: Metallic minerals
 - Non-metallic mineral
 - Distribution of minerals and mining regions
 - Distribution, production and international trade of Metallic minerals: Ferrous metals: Iron ore

- Ferro-alloys and non-ferrous
- Manganese
- Chromium
- Nickel
- Tungsten
- Antimony
- Copper
- Bauxite and Aluminium
- Zinc; Lead
- Tin
- Gold
- Silver
- Platinum
- Mineral chemicals
- Mica
- Potash
- Phosphate
- Nitrates
- Sulphur
- Conservation of mineral resources
- Energy Resources
 - Classification of energy
 - Production of conventional energy
 - General trends of energy production and consumption
 - Reserves and sources of energy
 - Coal
 - Nature and origin of coal
 - Constituents and kinds of coal
 - Coal fields and coal production
 - Byproducts of coal
 - Conservation of Coal
 - Petroleum
 - Nature and properties of petroleum
 - Origin and recovery
 - Exploration
 - Petroleum refining
 - Petroleum reserves
 - Producing areas
 - Consumption of petroleum

- International trade
- OPEC and its role in oil trade
- Natural gas: Reserves and Production
- Hydro-electricity
- Advantages of hydro-electricity
- Ideal conditions for generation of hydro-electricity
- Distribution of potential hydro-power
- Hydro-electric power generation in India
- Atomic (nuclear) energy
- Atomic: source minerals: Uranium
- World distribution of Uranium
- Production of Uranium
- Thorium
- Production of Atomic (Nuclear) Energy
- Nuclear Energy
- Alternative (non-conventional) sources of energy
- Solar energy
- Wind energy
- Geothermal power
- Tidal energy
- Wave energy
- Biomass energy
- Agriculture Basic Terminologies
 - Performance of the agriculture sector
 - Types of farming in India
 - Dry zone farming
 - Organic farming
 - 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
- Recent Developments in Agriculture Field
 - NITI Aayog proposed the idea of taxation of agricultural income
 - Removing agricultural commodities from the essential commodities Act: NITI Aayog
 - Feminization of Agriculture
 - e-auction portal : e-Rakam for selling agricultural produce
 - “AGRI-UDAAN” – Food and agri-business acceleration 2.0 to bring startup revolution
 - APEDA (Agricultural and Processed Food Products Export Development Authority Act)
 - SMAM (Sub-Mission on Agricultural Mechanization)
 - Jute-ICARE Project
 - Project CHAMAN
 - Doubling the farmers income: Ashok Dalwai Committee
 - RKVY-RAFTAAR
 - Agro Irradiation Centers
 - Agricultural Marketing and Farm Friendly Reforms Index
 - National Food Security Act
 - Digitization and Agriculture
 - Direct Benefit Transfer in Fertilizer Sector
 - Draft Regulation on Fortification of Foods
 - Law Commission Recommendation on Food Laws
 - Concept of Modern Terminal Markets
 - Animal Husbandry, Dairying and Fisheries
 - e-Pashuhaat Portal
 - Schemes of Bio-Tech Kisan and Cattle Genomics
 - RashtriyaGokul Mission
 - Mission Fingerling
 - Ornamental Fishing
 - Agricultural Science Congress
 - RubSiS
 - Ethanol Blending
 - National Bureau of Plant Genetic Resources
 - Amendments to the NABARD Act, 1981
 - Revenue Insurance Scheme for Plantation Crops

- Neem Coating of Urea
- National Agriculture Market
- 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
 - Production pattern
 - International trade
- Fibre Crops
- Cotton
 - Varieties of cotton
 - Conditions of growth
 - Production pattern
 - International trade
- Jute
 - Conditions of growth
 - Production pattern
 - International trade
- Substitutes of Jute: Flax, Hemp
 - Raw Silk
 - Production pattern
- States
- Natural Rubber
 - Other sources of rubber
 - Plantations in South-east Asia
 - Production pattern
- Sugarcane
 - Conditions of growth
 - Production pattern
 - International trade
 - Sugarbeet—Conditions of growth
 - Production pattern
 - Sugar industry
 - Sugar consumption
 - International trade.
- Industry
 - - Industrial development
 - Iron and Steel Industry
 - Location of iron and steel industry
 - Development of iron manufacture
 - Distribution of iron and steel industry
 - Global steel production

- International trade in Steel
- Textile Industry
- Cotton Textile Industry: Location of the industry
- Recent trends in localization
- Distribution and production of cotton textiles
- Woollen textile industry: Location of the industry
- Silk textile industry: Raw silk manufacture
- Silk textile manufacturing
- Synthetic (artificial) silk industry
- Distribution of man-made fibre and fabrics
- Engineering Industries
- Machine tools and machines: Areas of production
- Industrial machinery: Textile machinery
- Agricultural machinery
- Manufacturing of transport equipment
- Automobile industry
- Shipbuilding
- Aircrafts Industry
- Fertilizer industry: Nitrogen fertilizers
- Phosphate fertilizers
- Potash fertilizers
- Agro-industries
- Synthetic rubber industry
- Pulp and paper industry: Essential conditions for pulp production
- Production of paper and paper board
- Newsprint
- 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—USA, Canada, Western Europe and Central Britain, Germany, Belgium, Netherlands, France, Italy, Eastern Europe, Poland, Former USSR
 - Eastern Asia—Japan, China, the 'Dragons', India, High tech patterns.
- Transport
 -
 - Importance and development of transport
 - Means of transport
 - Transport costs and economic distance
 - Operating costs in transport
 - Relative importance of means of transport: Railways, Roads, Pipeline, Oceans, Air transport
 - Profits and freight rates
 - Government's transport policy
 - Ocean transport routes
 - Inland waterways
 - Main regions of inland waterways
 - Railways: Factors affecting the railroads
 - Distribution of railroads in the world
 - Air transport: Factors influencing air transport
 - Air transport in various continents
 - Pipeline transport
 - Petroleum (oil) pipelines
 - Gas pipelines
- Recent Development in Transport Sector
 -
 - Rural electrification corporation: First green bond
 - Time and costs over runs of infrastructure projects
 - India's First Mega Coastal Economic Zone (CEZ) to come up in Maharashtra
 - Logistic sector gets infrastructure status
 - AIIB approves \$150 million for India infrastructure fund
 - Ro-Ro Ferry service
 - Bharatmala project for construction of 24,000 km of highway connecting Western and Eastern part
 - Union Ministry of shipping is planning to expand Logistics Data Bank (LDB)
 - Railways India Development Fund
 - National Infrastructure Investment Fund
 - Defence Innovation Fund
 - Flexi Fare Method in Railway

- Rail Cadre Management
- TRI-NETRA in Railways
- National Rail Plan 2030
- India's First Caterpillar Train
- Green corridor concept
- Made in India 'Medha' train
- Antyodaya Express
- Smart Railway Station
- Yatri Mitra Seva
- National Highways Interconnectivity
- Vehicle Fleet Modernization Programme
- Transit Oriented Development Policy
- Logistic Efficiency Enhancement Programme
- Indian Bridge Management System
- National Road Safety Policy
- TARANG
- E-trans
- DEEP (Discovery of Efficient Electricity Price)
- GARV II APP
- Trading of Energy Saving Certificates
- Powers for all 24x7
- Draft National Electricity Plan
- Habitat Commitment Index
- Recent developments in Industrial Sector
 - - - Disinvestment of PSUs
 - Report titled "India's Labor Market: A New Emphasis on Gainful Employment"
 - Wage code Bill in line of recommendations of 2nd National Commission on Labor
 - CAR for the operation of Drones in India.
 - Draft Evaluation template for the star rating of Minor Minerals
 - Online database containing GIS-Enabled portal Maps land related information
 - Chennai-Bangalore Industrial Corridor
 - Apex Corridor Developmental Authority
 - Tamra Portal
 - Mining Surveillance System
 - Coal Mitra
 - M-SIPS for Electronic Sector
 - Indian Enterprise Development Service



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- Trade Receivables Discounting System
- SME Business Environment Index

WORLD REGIONAL GEOGRAPHY

- Continents Countries and Cities
 - Continents and Important Cities of the World
 - Important Cities Situated on the Banks of Rivers
 - Changed Names of Some Cities, States, and Countries
 - Distinctive Names of Countries/Towns— Geographical Epithets
 - Regional Grouping of Countries of the World
 - Economic Classification of Countries of the World
- Location in NEWS
 - Govardhan Eco village
 - City livability index
 - Sardar Sarovar Dam in Gujarat
 - Yethinahole Project
 - SMARTGRAM
 - Kaladan project in Myanmar
 - Doklam plateau
 - Gilgit-Ballistan
 - SCO Summit-Astana
 - Bosphorus strait
 - Nathu-La
 - Lisbon
 - Mahadayi tribunal
 - Jaravas
 - Bengaluru declaration
 - SASEC road connectivity
 - Doklam
 - dams bottom trawling
 - Hambantota Port
 - World Petroleum Congress, Turkey
 - Kaleshwaram project
 - Mega food park in Kapurthala
 - Assam's disturbed area tag
 - North Koel project
 - BIMSTEC



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- Conservation of Pagodas to Bagan
- Bridge over Mechi River
- Pangong Lake
- World's most liveable city
- Asia Africa Corridor
- Xiamen declaration
- Sir Creek
- Chakma, Majong Refugees Rohingya
- Cleanest Iconic place Meenakshi temple
- OBOR
- Hambantota
- Chahbahar Port
- Gwadar Port
- National Waterway – 4
- Polavaram project
- UNESCO creative cities network
- Singapore Changi Naval base
- India in Antarctica
- Concept of Resilient Cities
- Sericulture
- Blizzards
- New tectonic plate discovered
- Report on Palaeo Channel of North West India
- Cyclones in News

Physical Geography India & World(Mains)

GENERAL GEOGRAPHY

- Universe
 - Theories of evolution of Universe
 - Star Formation
 - Formation of planets
- Earth Evolution& Basics
 - Evolution of Earth
 - Evolution of Atmosphere
 - Evolution of Hydrosphere
 - Earth's Geological time scale
 - Origin of life
 - The Earth's Movements-Revolution and Rotation and Seasons
 - Inclination of the Earth's Axis and its effects

GEOMORPHOLOGY

- Earth's Interior
 - Sources of Information about the Interior (Direct Sources, Indirect Sources - Earth Quake Wave, Volcanoes)
 - Structure of the Earth's Interior
 - Mechanical and Chemical categorization of internal structure
- Geology and Rock System
 - Minerals
 - Major Elements of the Earth's Crust
 - Physical Characteristics
 - Classification -
 - Rocks (Aggregate of Minerals)
 - Classification
 - Igneous
 - Sedimentary
 - Metamorphic
 - Rocks & landforms
 - Rocks & Soils

- Geomorphic Processes
 - Endogenic Forces
 - Diastrophism
 - Orogenic
 - Epierogenic
 - Earthquakes
 - Plate movements
 - Volcanism
 - Exogenic Forces
 - Denudation Processes
 - Weathering & its Significance
 - Mass movements & their impact
 - Erosion Transportation & Deposition
- Earthquakes and Volcanism
 - - Earthquakes: Reasons, Distribution & impact
 - Volcanism
 - Types and distribution of Volcanoes
 - Volcanic Landforms (intrusive)
- Distribution of Continents & Oceans
 - Theories
 - Continental Drift Theory
 - Convectional Current Theory
 - Mapping of the Ocean Floor
 - Sea Floor Spreading
 - Plate Tectonics
 - Isostasy
- Landforms and their evolution
 - Causes of landform development
 - Geomorphic Processes
 - Geomorphic Agents
 - Geomorphic Agents and Landforms
 - Running Water
 - Development of a river System
 - Erosional Landforms
 - Depositional Landforms
 - Ground Water (Karst Topography)
 - Erosional Landforms
 - Depositional landforms

- Glaciers
 - Erosional Landforms
 - Depositional Landforms
- Waves and Currents
- Winds
 - Erosional Landforms
 - Depositional Landforms
- Landforms across the world
 - Rivers and lakes
 - Mountain and Peaks
 - Plateaus

OCEANOGRAPHY

- Hydrosphere
 - Water on the Surface of the Earth
 - Hydrological Cycle
- Submarine Relief Features
 - Relief of the Ocean floor
 - Divisions of the ocean floor
 - Minor relief features
- Temperature and Salinity
 - Temperature of the Ocean Water
 - Factors affecting Temperature distribution
 - Horizontal and Vertical Distribution
- Salinity of the Ocean Water
 - Factors affecting salinity
 - Horizontal distribution of salinity
 - Vertical Distribution of salinity
- Density of Ocean Waters
- Movements of Ocean Water
- Factors influencing Movement
- Waves
 - Motion of waves
 - Characteristics of wave
- Tides
 - Types of Tides
 - Importance of Tides

- Ocean Currents
 - Characteristics of Ocean Currents
 - Types of ocean currents:
 - Major Ocean currents of the World
 - Effects of Ocean Currents
- Marine Resources
 - Surface water resources
 - Ground water resources
 - Inland water resources
 - Oceanic Water Resources (Marine Resource)
 - Utilization of oceans by man
 - Water consumption patterns
 - Water Conservation and Management (Techniques)
- Ocean Deposits and Corals
 - Terrigenous Deposits
 - Volcanic Deposits
 - Biotic deposits
 - Abiotic Deposits
 - Coral Reefs
 - Probable origin of Coral Reef
 - Types and significance of Coral Reef
 - Issue of Coral Bleaching

CLIMATOLOGY

- Atmosphere
 - Composition of the Atmosphere
 - Structure of the Atmosphere
- Solar Radiation, Heat Balance and Temperature
 - Solar Radiation and Isolation
 - Heating and cooling of atmosphere
 - Terrestrial Radiation
 - Heat Budget of the Planet Earth
 - Temperature
 - Factors Controlling Temperature Distribution
 - Distribution 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
- General Circulation of the Atmosphere – Pattern of Planetary Winds
- Latitudinal Variation of Atmospheric Heating
- Emergence of Pressure Belts
- Hadley Cell , Ferrel Cell, Polar Cell
- Seasonal Wind
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 - Saturation – Dew Point
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 - Fog & Mist
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 - Precipitation
 - Rainfall
 - Snowfall
 - Sleet Hail
 - Hailstones
 - Types of Rainfall
 - World Distribution of Rainfall
- Climatic Zones of the World
 - World Climate
 - Koeppen's Scheme of Classification of Climate

- Climatic Zones of World

BIO-GEOGRAPHY

- Soil & Its Characteristics
 - Soil Characteristics
 - Factors Responsible for Soil Formation
 - Process of Soil Formation
 - Soil Profiles and Horizons
 - Classification of Soil
 - Soil Degradation, Erosion and Conservation
- Vegetation resources
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 - Factors of forest development
 - Classification of forests
 - forest cover
 - Grasslands
 - Desert vegetation
 - Tundra Vegetation
 - Deforestation
 - Conservation of forests
 - Reforestation
 - Afforestation
 - Forestry
 - Social forestry
 - Agro-forestry
 - Farm Forestry
 - Community Forestry

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
 - Peninsular Drainage 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
 - ELNINO and LANINA & 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



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- Forest Conservation
- Forest Problems in India

ENVIRONMENTAL ISSUES

- Floods and Droughts
- Forest fires
- Deforestation
- Desertification
- Pollution
- Climate Change and Global Warming

Economic & Human Geography

BASICS OF ECONOMIC GEOGRAPHY

- Definition, Development and scope of Economic Geography
- Type of Economic Activities
 - Primary Activities
 - Secondary Activities
 - Tertiary, Quaternary and Quinary Activities
- Recent Themes and Concepts in Economic Geography
- Agglomeration Economies
- Neo-liberalism
- Rise of macro regional Economic block
- Ethnicity in Economic Geography
- Concept of digital divide

RESOURCE

- Land Resource
 - Land-use Pattern and changes
 - Problems of Land Resources:
 - Land Degradation: Causes and Impact
 - Concept of Land Degradation Neutrality
 - Land Use Planning and Policy
- Water Resources
 - Extent of Water Resources
 - Water Resource Potential of India
 - Utilization and related problems (Pollution)
 - Inter- state water disputes in India
 - Water management, conservation and Development
 - National Water Policy
- Mineral Resources
 - Types of Mineral Resources
 - Distribution Pattern of Minerals in World
 - Major Mineral Belts of India
 - Problems related to mining

- Conservation of Mineral Resources
- National Mineral Policy, 2019
- Energy resources
 - Classification of Energy Resources
 - Distribution and production trend of major energy Resources
 - Coal
 - Petroleum
 - Natural gas
 - Strategic Oil Reserves
 - Exploration of Coal Bed Methane
 - Non-Conventional Energy Resources
 - Solar Energy
 - Wind Energy
 - Geothermal
 - Nuclear Energy Resources: Challenges and prospects in India
- Recent Debates on Resources
 - Geopolitics of Natural Resources
 - Globalisation and Unsustainable exploitation of natural resources
 - Depletion of natural resources versus Economic Growth
 - Changing Pattern of Land Use and Causes
 - Water Crisis: Causes, Conflicts and Resolution
 - Energy Crisis
 - Challenges and constraints faced by coal sector
 - Challenges in Hydropower sector
 - Renewable Energy: way toward sustainability
 - Energy Security: Energy Policy and strategy in India

AGRICULTURE

- Agriculture Basic Terminologies
 - Cropping pattern
 - Agriculture Productivity
 - Agriculture Intensity
 - Land capability
- Location of agriculture
- World Agriculture Typologies
- Salient features of Indian Agriculture
- Problems of Indian Agriculture

- Factor Affecting Agriculture
 - Geographical factors
 - Institutional factors
 - Technological factors
- Major Crops and conditions for growth
- Regionalization of Agriculture
- Various Revolutions in Agriculture Sector
 - Green Revolution
 - Impact of Green Revolution
 - Evergreen Revolution
 - White Revolution
 - Operation Flood
 - Blue Revolution
- Agricultural Policies and Initiatives
 - Minimum Support Price: Benefits and Challenges
 - Agriculture Market Produce Committees: Issues
 - National Agriculture Market (NAM)
 - Agricultural Produce and Livestock Marketing (Promotion and Facilitating) Act (APLM), 2017
 - National Livestock Mission
 - National Programme for Bovine Breeding and Dairy Development (NPBBD)
 - Rashtriya Gokul Mission
 - Agriculture Export Policy, 2018
 - Pradhan Mantri Kisan Samman Nidhi (PM-KISAN)
 - Pradhan Mantri Annadataaay Sanrakshan Abhiyan (Pm-Aasha)
 - Operation Greens
 - Dairy Processing & Infrastructure Development Fund (DIDF)
 - Fisheries and Aquaculture Infrastructure Development Fund (FIDF).
 - Agriculture Census
- Food Security
 - Nature of Food Insecurity: Duration, Severity and types
 - Trend and Pattern in Food Insecurity
 - Causes and Geography of famine
 - Key Dimension of food security
 - Efforts and Remedies to ensure food security
- Agricultural in Discussion
 - Controversy over GM Crops: Benefits and Issues
 - Impact of climate Change on Agriculture
 - Evergreen Green Revolution for Sustainable Livelihood
 - Rainbow Revolution

- Blue Revolution: Impact on Rural Economy
- Climate Smart Agriculture
- Need of Agriculture Diversification
- Mixed farming: Hedging Agriculture Risks
- Problems and Prospects of dry-zone agriculture
- Plantation Agriculture: Issues involved
- Challenges of increasing Agriculture Productivity and Production
- New 'White Revolution': Need, Scope and Challenges
- Contract Farming: Benefits and Challenges
- Role of infrastructural and institutional factors in the recent transformation of Indian agriculture
- Impact of advanced agricultural technologies on the Environment
- Soil Health Card scheme and rationalisation of fertilizer subsidies
- Food Security: India's Vulnerability and way-out

INDUSTRY

- Classification of Industries
- Factors affecting location of Industries
 - Weber's Model of Industrial Location
 - Losch theory of Profit Maximization
- Various Industries: Location, Prospects and Challenges
 - Iron and Steel Industry
 - Textile Industry
 - Jute Industry
 - Auto Mobile Industry
 - Fertilizer Industry
 - Agro-based Industries
 - Other Industries
- Industrial Regions and its Characteristics
 - Major Industrial Regions of the World
 - Industrial Regions of India
 - Industrial Policies and Development
 - A Scheme for Promotion of Innovation, Rural Industry and Entrepreneurship
 - Scheme of Fund for Regeneration of Traditional Industries
 - Stand Up India
 - Fourth Industrial Revolution
 - Role of Industrial development in minimizing regional inequalities

- Problems of Industrial regions
- Factors behind the growth and present location pattern of automobile industry in India
- Pharmaceutical industry: Locational pattern and reasons
- Sugar industry: Problems and challenges of current pattern
- Food Processing Industry: Untapped Potential
- Agro based Industries: Problems and Prospects
- Impact of agro-based industries on cropping pattern
- Tourism: Prospects and Impact on Environment

TRANSPORT AND COMMUNICATION

- Land Transport
 - Roads
 - Classification of roads
 - National Highway Grid
 - Problems and Prospects
 - Bharatmala Pariyojana
 - Railways
 - Significance and Problems of Indian Railways
 - Dedicated Freight Corridors
 - Privatisation of Railways
 - Pipelines
 - Significance, Distribution and Challenges
 - Water Transport
 - Inland: National Waterways
 - Factors affecting Inland waterways
 - Significance and Challenges
 - Jal Marg Vikas Project
 - Seaways and Oceanic Route
 - Shipping
 - Major Ports of World and India
 - Challenges in Port Development
 - Sagarmala Project
 - Air Transport
 - National Airways
 - National Civil Aviation Policy
 - Regional Connectivity Scheme (UDAN)

- International Airways
- Communications
 - Communication Infrastructure
 - National Telecom Policy
- Major Issues in Transport and Communication
 - Role of Transport in Regional Development
 - Need for holistic transport planning to improve the city's mobility
 - Carbon footprint of the transport sector
 - Road Transport: Investment Challenges
 - Inland Waterways: Development challenges and prospects
 - Ports: Inclusive centres of economic development
 - Problem of Port Development
 - Analysis of Sagarmala Project
 - Environmental issues of maritime shipping
 - Role of Transport in Regional Development
 - Eco Tourism: Way toward Responsible Tourism
- Trade
- World Trade Pattern
 - Major Oceanic Trade Routes
- Basis of Overseas Trade
- Types of International Trade
 - Bilateral Trade
 - Multilateral Trade
- Various Organisation Related to International Trade
- Regional Trade Blocks
- Foreign Trade: India
 - Trends in India's Foreign Trade
 - Composition Indian Trade
 - Direction of India's Foreign Trade
- Trade Pattern and Policies
 - Changing Pattern of India's foreign trade
 - Challenges and prospects of foreign trade of India
 - Impact of trade liberalisation on the geographical distribution of industries
 - Neo-liberal reforms in Africa: Race of India and China

DEMOGRAPHY AND CENSUS WORLD & INDIA

- Concept of human resources
- Factors affecting the distribution of Population
- Population growth
 - Theories of Population Growth
 - Malthusian Theory
 - Marxian Theory
 - Demographic transition theory
 - Optimum Population Theory
 - Size, growth rate and distribution of population
 - Components of Population growth
- Demographic Dividend
 - Demographic Window of Opportunity
- Components of Population change
 - Birth Rate
 - Death Rate (Mortality Rate)
 - Migration
 - Factors responsible for migration
 - Type of Migration
 - Issues related to migration
 - Migration pattern in world and India
 - World Migration Report, 2018
 - Population Composition
 - Age Sex Pyramids & their significance
 - Trends and Pattern in Sex Ratio
 - Initiatives to improve Sex ratio
 - Trends and Patterns in Literacy
 - Government's Efforts
 - Fertility Rate
 - Impact of Population Change
 - Population Policies
 - Need for revision of National Population Policy
 - Population problems
 - Global Nutrition Report, 2018
 - Global Hunger Index

SETTLEMENTS AND URBANIZATION

- Rural Settlements
 - Classification of Rural Settlements
 - Function of Rural Settlements
 - Patterns of Rural Settlements
 - Changing Pattern of Rural Settlements
- Urban Settlements
 - Origin of Urban Settlements- Functional Classification of Towns
 - Urbanization
 - Indian Mega Cities
 - Central Place Theory
 - Primate City
 - Morphology of Indian Cities
 - Conurbations
 - Urban Slums
 - Rural Urban Fringe
 - Rural Urban Continuum
 - Issues related to Urbanization in India
 - Habitat – III Conference
 - Schemes
 - Pradhan Mantri Awas Yojana or Housing for All Scheme
 - Smart City Initiative
 - AMRUT (Atal Mission for Rejuvenation and Urban Transformation)
 - HRIDAY (Heritage City Development and Augmentation Yojana)

REGIONAL PLANNING AND DEVELOPMENT

- Concept of Region
- Types of Regions
- Issues of Regional Imbalances
- Strategies for Regional Development

HUMAN DEVELOPMENT

- Growth v/s Development
- Approaches to Human Development



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- Human Development Index
- International comparisons of Human Development
 - World Development Report, 2019
- Human Development Report

Indian Society(Mains)

UPSC SYLLABUS

- Salient features of Indian Society
- Diversity of India
- Effects of globalization on Indian society
- National Integration, communalism, regionalism & secularism
- Role of women and women's organization
- Social empowerment, poverty and developmental issues
- Welfare schemes for vulnerable sections of the population by the Centre and States and the performance of these schemes; mechanisms, laws, institutions and Bodies constituted for the protection and betterment of these vulnerable section
- Issues relating to development and management of Social Sector/Services relating to Health, Education, Human Resources
- Issues relating to poverty and hunger
- Inclusive growth and issues arising from it.

UNITY IN DIVERSITY

- Concepts of Unity and Diversity
- Forms of Diversity in India
- Reasons for so much Diversity
- Bonds of Unity In India
- Geo-political Unity
- The Institution of Pilgrimage
- Tradition of Accommodation
- Tradition of Interdependence
- Role of Sensitive Leaders
- Constitutional Safeguards – Role of Constitution Framers

CHALLENGES OF DIVERSITY TO UNITY (CHALLENGES TO NATIONAL INTEGRATION)

- Diversity of Constituents
- Regionalism and Cultural Identities



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- Casteism
- Linguism
- Communalism
- Social Inequalities
- Regional Disparities
- Ethno-Nationality and Ethnic Conflicts
- Tribal Identity
- Basic Sociological Concepts
- The Family and Kinship
- Concept of Patriarchy In India

SECULARISM

- Secularism And Secularization
- Western and Indian Concept
- Process of Secularization
- Secularism and Forced Conversion in India

REGIONALISM, COMMUNALISM, FUNDAMENTALISM AND COMMUNAL VIOLENCE

- Regionalism
- Regionalism in India
- Types of Regionalism
- Effects of Regionalism
- Regionalism: Demand for Smaller States
- Strategies to tackle Regionalism
- Sons of Soil Concept
- Communalism Concept, Origin, Impact
- Fundamentalism-religious, Cultural
- Communal Violence

SOCIAL EMPOWERMENT

- Constitutional Provisions Relevant to Social Justice & Empowerment of Scheduled Caste & Scheduled Tribes
- Status of Minorities In India



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THE SCHEDULED CASTES: FROM UNTOUCHABLE TO DALIT

- Population of the Scheduled Castes
- Types of Disabilities of the SCs
- From Untouchables to the Dalits: The Process of Identity Formation
- Combating Mechanism against Caste Atrocities and Violence
- The State Efforts for Dalit Emancipation
- Identify Political Implications on Dalits

TRIBALS IN INDIA

- Chronic Indebtedness
- Forest Related Problems
- Destruction of the Forest Environment and the Tribal People
- Development and Displacement
- Analysis of Forest Rights Act

WOMEN MOVEMENTS

- 19th Century Women Movements – Under Social Reform Movements
- Women's Issues During Gandhian Era
- Issues in Post Independence Era
- Violence Against Women
- Developmental Movement
- Uniform Civil Code
- Feminism and Post Feminism

SOCIAL JUSTICE

- Concept of Casteism in India
- Caste and Politics
- The Reservation Policy Debate
- Social Justice and Social Development

SOCIAL SECURITY IN INDIA

- Concept



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- Social Security System in India
- Organized Sector and Social Security
- Unorganised Sector and Social Security
- Centrally Funded Social Assistance Programmes
- Public Initiatives
- Review of the implementation of Social Security Laws in the Country
- Suggestions for Improving the Social Security Matrix
- Social security code for all

UNDERSTANDING POVERTY

- Dimensions of Poverty
- Linkage between Poverty and Development
- Recommendations of Rangarajan Committee Report
- Poverty Alleviation Strategy Since Independence
- Programmes for Poverty Alleviation
- Concept of Inequality

GLOBALIZATION

- Meaning of Globalization
- Reasons for Globalization
- Dimensions/Impact
- Political
- Cultural and Social
- Economic
- Anti-Globalization Movement
- New Localism
- NPM (New public management)

URBANIZATION & CENSUS 2011

- Urbanization
- Trend and pattern of Urbanization
- Issues Related to Urbanization in India
- Status of Service Delivery and Governance
- Urban Development Projects
- Critical Analysis of Smart City Mission

- SDG's and urbanization

CENSUS 2011

- Highlights of 2011 Census
- Analysis of Sex Ratio Data
- Impact of Skewed Ratio
- Laws related to Prevent Female Infanticide
- Recent initiatives
- Trend and Current Scenario of Literacy in India
- Literacy Challenges in India as Whole
- Efforts to Improve the Literacy in Country
- Child Health Indicators and Maternal Health
- Initiatives taken by the Government
- Why the Health schemes fail to bring change?
- Family Planning and Population Policy of India
- Analysis on Status of Old Age Population: Issues & Policy Initiative
- Socio-Economic Caste Census 2011
- NRC

CONTEMPORARY ISSUES

- Secularism, Regionalism & Communalism
 - Secularism and Anti Conversion
 - Regionalism: Demand for Smaller States
 - Socio-Economic Caste Census, 2011
 - Gender Discrimination in the Corporate Sector

ISSUES RELATED TO WOMEN

- Gender Discrimination in Corporate Sector
- Female Genital Mutilation
- Bill on Banning Triple Talaq
- Issues of women entry to place of worship
- Adultery No Longer a Crime : SC
- Unwanted Girls in India
- Altruistic Surrogacy in India



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- Women in Panchayats
- Women Participation in Economy
- # Me Too Movement
- Draft National Policy for Women, 2016
- Laws Related to Stalking in India
- Debate on the Issue of Marital Rape
- India's Maternity Laws need Serious Tweaking
- Women in Judiciary Matters
- SC's Judgment on Dowry
- Gender Budgeting: Critical Analysis

ISSUES RELATED TO CHILDREN

- Issues Faced by Children in War Zone
- High Dropout Rate of Girls in India
- Child Trafficking
- Safety of Children in Schools
- Issue of Malnutrition in India
- Amendments Proposed in Child Labour Act
- Plight of Street Children
- Juvenile Justice System
- Child Marriages in India
- Death for child Rape
- Draft National Child Protection Policy
- National Action Plan for Children, 2016

OTHER ISSUES

- India's Family Planning Programme: Critical Analysis
- Demography and Policy Planning
- India's Ageing Report
- Legalising Same Sex Marriage
- Domestic Workers: Issues and Laws
- Development Leading to Displacement
- Moral Policing
- Euthanasia and Living Will
- Inadequacies in existing Human Trafficking laws in India
- Transgender Bill passed in Lok Sabha with Amendments
- Mental Health Care Bill



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- Rights of Persons with Disabilities Act
- Manual Scavenging
- Mob lynching and Rule of Law
- Issue Related to Under trials
- Income Inequality in India
- Indigenous People in India : An Analysis
- Debate Over Death Penalty
- Global Slavery Index Report
- Right to Privacy Judgement
- SC Verdict on SC/ST Atrocities Bill
- Social Stigma Attached with HIV

HEALTH & EDUCATION

- Status Health sector
- Status of Education sector
- Allied Health Care Professions Bill, 2018
- Ahead on Malaria: On reduction in cases in India
- India and Neglected Disease Treatment
- TB Status in India and Bedaquiline Patent Challenge
- Status of E-Pharmacies in India
- Changes Proposed in No Detention Policy
- National Policy on Education
- Capacity Building for Primary Health Care
- NITI Aayog on Privatisation of Urban Health Care
- National Health Policy, 2017
- Regulating Private Healthcare
- India's Nutrition Challenge
- Food Fortification
- Sanitation and Nutrition Linkage
- Ayushman Bharat

MISCELLANEOUS

- Is social media polarizing society?
- Online political advertising and challenge for democracy and society
- Draft Social Security Code
- Uniform Civil Code
- Critical Analysis of Stand Up India Scheme



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- SC Suggests for Prison Reforms
- Statue of Unity

Polity & Governance

Indian Polity & Governance(Prelims)

EVOLUTION OF THE CONSTITUTION

- The Company Rule (1773-1858)
 - Regulating Act, 1773
 - Amending Act, 1781
 - Pitt's India Act, 1784
 - Amending Act of 1786
 - Charter Act, 1793
 - Charter Act, 1813
 - Charter Act, 1833
 - Charter Act, 1853
- The Crown Rule (1858-1947)
 - Government of India Act, 1858
 - Indian Councils Act, 1861
 - Indian Councils Act, 1892
 - Indian Councils Act, 1909
 - Government of India Act, 1919
 - Simon Commission
 - Government of India Act, 1935
 - Indian Independence Act, 1947
- Drafting and Sources of Indian Constitution)
 - Seminal Sources
 - External Sources
 - Developmental Sources
 - Constitutional Practices
 - Important Committees of the Constituent Assembly and their Chairman

SALIENT FEATURES OF INDIAN CONSTITUTION

- Constitution and Types
 - What is a Constitution?
 - Types of Constitution
 - Functions of the Constitution
 - Historical evolution of the Constitution
 - Constituent Assembly
 - Objectives of the Constitution
 - Unitary features
 - Federal features
- Types of Political System
 - Types of Political System
 - Types of Government
 - Parliamentary form of government
 - Features of the Presidential System
 - Features of Semi-Presidential System
- Types of Majorities as per the Indian Constitution
 - Absolute Majority
 - Effective Majority
 - Simple Majority
 - Special Majority
- Preamble and Values in the Constitution
 - The objectives laid down in the Preamble
 - Whether the Preamble is a part of the Constitution or not?
 - Whether Preamble can be amended or not?
 - Ideals (mentioned in the Preamble)
 - Democratic
 - Sovereign
 - Socialist
 - Secular
 - Republic
 - Justice
 - Equality
 - Liberty
 - Fraternity
 - Integrity
- Amendment of the Constitution
 - Procedure for amendment

- Types of Amendments
- Amendability of FR's
- Ingredients of basic structure
- Doctrine and Terms
 - Doctrine of severability
 - Validity of Re-Constitutional Laws
 - Doctrine of Eclipse
 - Doctrine of Harmonious Construction
 - Doctrine of Pith and Substance
 - Doctrine of Colorable Legislation (Article 246)
 - Doctrine of Territorial Nexus
 - Doctrine of Laches
 - Due Process of Law
 - Procedure Established by Law
- Other Constitutional Dimensions
 - Schedules and Subjects
 - Official Languages

UNION & ITS TERRITORY

- ARTICLE 1-4
 - Article 1: Name and Territory of the Union
 - Committee/commission for State Re-organisation
 - The State Reorganization Commission (SRC) 1953
 - Article 2: Admit or Establish new State
 - Article 3: Formation of new States and alteration of areas, boundaries or names of existing States
 - Article 4: Laws made under articles 2 and 3 to provide for the amendment of the First and the Fourth Schedule and Supplemental.
 - Delimitation Commission

CITIZENSHIP

- Constitutional Provisions
 - Constitutional provisions of citizenship
 - Citizenship Act, 1955
 - The Citizenship (Amendment) Act, 2016
 - Methodology of getting citizenship
 - Modes of Losing the Citizenship of India

- Concept of dual citizenship
- Special privileges enjoyed by citizens in India
- Rights and Duties of Citizens
- Indian Diaspora
 - Pravasi Bhartiya Divas
 - Non-Resident Indians

FUNDAMENTAL RIGHTS

- Evolution Objectives And Features
 - Meaning
 - Objectives
 - Features
 - Importance
 - Restrictive limitations on fundamental rights
- Article 12 and Article 13
 - Definition of state
 - Laws Inconsistent with Fundamental Rights
- Right to Equality
 - Article 14: Equality before the law or the Equal protection of Law
 - Article 15: Prohibition of Discrimination on the grounds of religion, race, caste, sex or place of birth
 - Article 16: Equality of Opportunity in matters of Public Employment
 - Article 17: Abolition of Untouchability
 - Article 18: Abolition of Titles
- Right to Freedom
 - Article 19
 - Article 20: (Protection in respect of conviction for offenses)
 - Article 21: Protection of life and personal liberty
 - Article 22: Protection against arrest and detention
- Right against Exploitation
 - Article 23: Prohibition of Traffic in human beings and forced labour
 - Article 24: Prohibition of employment of children in factories, etc
- Right to Freedom of Religion
 - Article 25: Freedom of conscience and free profession, practice and propagation of religion
 - Article 26: Freedom to manage religious affairs
 - Article 27: Freedom from payment of taxes for promotion of any particular religion.
 - Article 28: Freedom from attendance religious instruction or worship in educational institutions
- Cultural and Educational Rights

- Article 29: Protection of interest of Minorities
- Article 30: Right of minorities to establish and administer educational institutions
- Right to Constitutional Remedies
 - Article 32: Right to Constitutional Remedies:
 - Habeas Corpus
 - Mandamus
 - Certiorari
 - Prohibition
 - Quo Warranto
- FR's other Dimensions
 - Article 33
 - Article 34
 - Article 35
 - Article 35A

DIRECTIVE PRINCIPLES OF STATE POLICY (DPSP)

- Evolution, objectives, and features
 - Basic features
 - Types
 - Amendments
 - Implementation
- Socialistic Principles
 - Article: 38
 - Article: 39
 - Article: 39A
 - Article: 41
 - Article: 42
 - Article: 43
 - Article: 43-A
 - Article: 47
- Gandhian Principles
 - Article: 40
 - Article: 43
 - Article: 46
 - Article: 47
 - Article: 48
- Liberal-Intellectual Principles

- Article: 44
- Article: 45
- Article: 48
- Article: 48A
- Article: 49
- Article: 50
- Article: 51
- Directive Principle Outside Part IV
 - ARTICLE 335 IN PART XVI
 - ARTICLE 350-A IN PART XVII
 - Article 351 in Part XVII

FUNDAMENTAL DUTIES

- Article: 51A
 - Features
 - Relation between of Fundamental Rights and Fundamental Duties
 - List Of Fundamental Duties
 - 86th Constitutional Amendment Act 2003 : RTE
- Recent Developments
 - Fundamental Duties – Awareness Campaigns is the Duty of Centre
 - National Anthem - Mandatory in Cinema Halls - Article 51(a)
 - Prevention of Insults to National Honour Act, 1971
 - Triple Talaq Issue
 - Uniform Civil Code
 - MGNREGA: Right to Work
 - Making Aadhar mandatory

SYSTEM OF GOVERNANCE

- Centre-State Relations
 - Legislative relations (Articles) 245
 - Related to Territorial Powers
 - Related to Legislative Powers
 - Related to Parliament's Power to make Laws in State
 - Sarkaria Commission's Opinion on Legislative Relations
 - Administrative Relations
 - Delegation of Union Functions to the States

- Sarkaria Commission's Opinion on Administrative Relations
- Financial relations
- National Integration Council
- Inter State Relation
 - Inter state water dispute
 - Inter state councils
 - Inter state trade and commerce
 - Zonal Councils
- Special Provisions for some States
 - Provisions for Maharashtra and Gujarat, Nagaland, Assam and Manipur
 - Provisions for Jammu and Kashmir (A370) (now abrogated)
- Types of Emergencies
 - National Emergency
 - Constitutional/State Emergency /President's Rule
- Financial Emergency

UNION EXECUTIVE

- President
 - Eligibility
 - Conditions of Office
 - Term of Office
 - Election
 - Manner of Election
 - Impeachment of the President
 - Impeachment of the President
 - Vacancy in the Office of President
 - Powers of the President
 - Executive powers (Article 53)
 - Legislative Powers
 - Financial Powers
 - Ordinance Issuing Power (Article 123)
 - Judicial/Pardoning Power
 - Military
 - Diplomatic
 - Emergency Powers
- Vice President
 - Qualification

- Conditions of Office
- Term of Office
- Election
- Removal
- Vacancy
- Functions of the Vice-President
- The Prime Minister
 - Appointment
 - Eligibility
 - Powers and Functions of Prime Minister
 - Relationship between the President and the Prime Minister
 - Deputy Prime Minister
 - Prime Minister's Office
- Union Council of Minister
 - Article 74: Council of Ministers to aid and advice President
 - Article 75: Other Provisions as to Ministers
 - Article 77: Conduct of Business of the Government of India
 - Article 78: Duties of Prime Minister
 - Nature of advice by Ministers
 - Strength of the Council
 - Appointment of a Non-legislator as a Minister
 - Collective responsibility of the Ministers
 - Individual Responsibility of Ministers

UNION LEGISLATURE

- Organisation of Parliament
 - Organisation of Parliament
 - Qualifications and Disqualifications for being a Member of Parliament (Article 84)
 - Functions of the Parliament
 - Functioning of the Parliament
 - Sessions of Parliament
 - Devices of Parliamentary Proceedings
 - Parliamentary Privileges and Immunities
 - Collective Privileges of the House
 - Individual Privileges
 - Houses of the Parliament

- Parliament, Lok Sabha and Rajya Sabha
 - Lok Sabha Composition
 - Rajya Sabha Composition
 - Presiding Officers of the Parliament
 - Speaker
 - Powers & Functions of the speaker
 - Deputy Speaker
 - Panel of Chairpersons of Lok Sabha
 - Speaker Pro Tem
 - Chairman of Rajya Sabha
 - Deputy Chairman of Rajya Sabha
 - Panel of Vice-Chairpersons of Rajya Sabha
 - Chairman and Deputy chairman of the Council of States
- Legislative Procedure and Committees of Parliament
 - Legislative Procedure in Parliament
 - Ordinary Bill
 - Money Bill
 - Financial Bill
 - Constitution Amendment Bill
 - Lapsing of Bills
 - Annual Financial Statement: Budget (Article 112)
 - Demand of Grants
 - Appropriation Bill
 - Cut motions
 - Stages in Enactment of Budget
 - Other Grants
 - Related Information of Budget
 - Parliamentary committees

STATE EXECUTIVE

- Governor
 - Article 152: Definition
 - Article 153: Governors of States
 - Article 154: Executive power of State
 - Powers of Governor
 - Executive power
 - Legislative power

- Financial Power
- Judicial Power
- Discretionary power
- Article 155: Appointment of Governor
- Article 156: Term of office of Governor
- Article 157: Qualifications for Appointment as Governor
- Article 158: Conditions of Governor's office
- Article 159: Oath or affirmation by the Governor
- Article 160: Discharge of the functions of the Governor in certain contingencies
- Article 161
- Article 162: Extent of executive power of State
- Recommendations on the office of Governor
- ARC (Administrative Reforms Commission)
- Sarkaria Commission
- National Commission to Review the working of the Constitution
- The Chief Minister and the CoM
 - Powers and Functions of Chief Minister
 - In Relation to Council of Ministers
 - In relation to the Governor
 - In Relation to State Legislature
 - Other Powers and Functions
 - Composition of the Council of Ministers
 - Responsibility of Ministers
 - Advocate-General for the State

STATE LEGISLATURE

- Legislative Assembly
 - Legislative Assembly (Vidhan Sabha)
 - Powers and Functions
 - Speaker & Deputy Speaker
 - Parliament's Control over State Legislature
- Legislative Council (Article 169)
 - Qualifications
 - Powers and Functions



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LOCAL GOVERNMENT

- Panchayati Raj
 - Evolution of the Panchayati Raj Institution (PRI)
 - 73rd Amendment Act of 1992
 - Compulsory and Voluntary Provisions
- Urban Local Government
 - 74th Constitutional Amendment Act
 - Types of Urban Governments In India

UNION TERRITORIES AND SPECIAL AREAS

- Union Territories
 - Creation of Union Territories
 - Administration of UT's
 - Special provisions for Delhi
 - Special Category Status
- Schedule and Tribal Areas
 - Administration of Schedule Areas
 - Administration of Tribal areas

THE JUDICIARY

- The Supreme Court
 - Chief Justice of India
 - Acting Chief Justice of India
 - Appointment of Supreme Court Judges
 - Qualifications for Supreme Court Judges
 - Removal of a Supreme Court Judges
 - Process of Impeachment
 - Ad hoc and Retired Judges
 - Salaries and allowances of Supreme Court Judges
 - Chief Justices of India (Since 1951)
 - Jurisdiction of the Supreme Court
 - Judicial Independence
 - Judiciary Executive Relations
- The High Court Subordinate Courts & Lok Adalats
 - The High Courts

- Jurisdiction of the High Courts
- Subordinate Courts
- Gram Nyayalayas Act, 2008
- Alternative dispute Resolution
- Lok Adalat
- All India Judicial Service
- E-governance in Judiciary
- Judicial Impact Assessment
- Judges Standards and Accountability Bill, 2010
- National Legal Services Authority (NALSA)

CONSTITUTIONAL & NON CONSTITUTIONAL BODIES

- Constitutional Bodies
 - Finance Commission
 - Constitution
 - Functions
 - Comptroller and Auditor General of India
 - Comptroller and Auditor-General
 - Attorney-General of India
 - Appointment
 - Functions and Responsibilities
 - Other Constitutional Bodies
 - All India Services
 - Union Public Service Commission (UPSC)
 - State Public Service Commission (SPSC)
 - Joint State public Service Commission (JSPSC)
 - National Commission For SCs
 - National Commission For STs
 - Special Officer for Linguistic Minority
 - The Advocate General (Article 165)
- Non Constitutional
 - Special officer for linguistic Minorities
 - Central Information Commission
 - State Information Commission
 - Lokpal and Lok Ayukta
 - National Human Rights Commission
 - State Human Right Commission

- CVC (Central Vigilance Commission)

POLITICAL DYNAMICS

- Political Parties and Election
 - Electoral System in India
 - Electoral Reforms Since 1988
 - Salient features of the Representation of People Act, 1950
 - Salient features of Representation of Peoples Act, 1951
 - Elections in India
 - Electoral reforms since 1988
 - Criminalization of politics
 - Negative or neutral voting
 - State funding of Election
 - Irregularities in polling
 - Types of Political Parties
 - Party System in India
 - Political Parties in India
 - Problems in the working of parties
 - Casteism and Politic
 - Strengthening of Anti-defection measures
 - Pressure Groups
 - Meaning and Techniques
 - Pressure Groups in India
 - Types of pressure groups
 - Role of pressure group in developing countries
 - Functions of pressure groups in India
 - Pressure groups methods
 - Pressure groups and Democracy
 - Criticism of pressure groups

GOVERNANCE

- Governing Institutions in India
 - Structure of Ministries/departments
 - Political head
 - Secretariat organization secretary
 - Functions of the secretariat
 - Functions of attached and subordinate office

- Other organizations
- Public sector undertakings
- The Executive organization
- Advantages of the separation of secretariat and executive organization.
- Strengths and weaknesses of the existing structure
- Recommendations for improving the Organizational structure
- Audit and other Transparency initiatives
 - CVC
 - CAG
 - Lokpal
 - Lok Ayukta
- Role of SHG, NGOs, Civil Society
 - SHGs
 - Characteristics
 - Role of SHGs in development
 - NGOs
 - Functions
 - Role of NGOs in development
 - Micro Finance Institutions
 - Salient features
 - Role of MFIs in development
- Social Sector Bills
 - - The Juvenile Justice (Care and Protection of Children) Act
 - Surrogacy (Regulation) Bill, 2016
 - Child Labour (Prohibition and Amendment) Bill, 2016
 - Maternity Benefit Bill, 2016
 - Pre-Conception & Pre-Natal Diagnostic Techniques (PNDT) Act
 - Mental Health Care Bill, 2013
 - Protection of Children from Sexual Offences (POCSO)
 - Anti Trafficking Bill with Stringent Penalty
 - HIV and AIDS (Prevention and Control) Bill- 2014 - Amendments
 - Domestic Violence Act, 2005 - SC Widens Ambit
 - Rights of Persons with Disabilities Bill, 2014 with more Benefit
 - Transgender Persons (Protection of Rights) Bill 2016
 - The Scheduled Castes and the Scheduled Tribes (Prevention of Atrocities) Amendment Act
- Welfare Schemes
 -

- - Health
 - National Health Mission
 - National Ayush Mission
 - Jan Aushadhi Scheme
 - Mission Indradhanush
 - NFHS-4 survey
 - Education
 - Padhe Bharat Badhe Bharat
 - Mid Day Meal Scheme
 - GIAN (Global Initiative of Academic Networks)
 - SWAYAM (Study Webs of Active –Learning for Young Aspiring Minds)
 - Start-up and Skill Development
 - Start Up India Scheme
 - Stand up India Scheme
 - National Student Start-up Policy
 - National Skill Development Mission
 - Pradhan Mantri Kaushal Vikas Yojana
 - Deen Dayal Antyodaya Yojana
 - Skill Development Initiative Scheme
 - Self-Employment & Talent Utilisation (SETU)
 - Atal Innovation Mission
 - Vulnerable Sector
 - Social Security
 - Atal Pension Yojana
 - Pradhan Mantri Jeevan Jyoti Bima Yojana
 - Pradhan Mantri Suraksha Bima Yojana
 - 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
 - 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)
- Rural and Urban Development
- Sansad Adarsh Gram Yojana
- Gram Uday Se Bharat Uday Abhiyan
- Shyama Prasad Mukharjee 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)
- 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
- Miscellaneous schemes
 - 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
 - Khelo India
 - PRAGATI (Pro-Active Governance and Timely Implementation)
 - Indian Community Welfare Fund (ICWF)

INTERNATIONAL RELATIONS

- India's Foreign Policy
 - Evolution of India's Foreign Policy
 - Post 1990 Scenario
 - Global Issues
- South Asia
 - India – Nepal Relations
 - India and Bhutan
 - India-Afghanistan Relations
 - India-Bangladesh Relations
 - India-Maldives Relations
 - India-Sri Lanka Relations
 - India-Myanmar Relations
 - India-Pakistan Relations
 - SAARC
 - NAM (Non-Alignment Movement): Relevance
- Central Asia
 - Mongolia
 - Kazakhstan
 - Turkmenistan
 - Uzbekistan
- West Asia
 - India – UAE Relations
 - India IRAN Relations
 - Israel and Palestine Relations
 - India – Israel Relations
 - India – Saudi Arabia
- Asia – Pacific
 - Asia-Pacific Region
 - India-South East Asia Relations
 - India-Asean Cooperation
 - Indo-Japan Relations
 - Indo-Australia Relations
 - India – South Korea Relations
 - India-Vietnam
- Africa
 - India-South Africa Relations



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- India-Nigeria Relations
 - India-Kenya Relations
 - India-Sudan Relations
- Europe
 - India-Russia Relations
 - India-France Relations
 - India-Germany Relations
 - India-United Kingdom Relations
 - India-EU Kingdom Relations
- US-China
 - India-USA Relations
 - India-China Relations
- Indian Ocean Region
 - Seychelles
 - Mauritius
 - Maldives
- Indian Diaspora
 - Indian Diaspora in West
 - Indian Diaspora in Gulf
 - Indian Diaspora in East and Middle East

Features of Indian Polity & Constitution(Mains)

UPSC SYLLABUS

- Indian Constitution- historical underpinnings, evolution, features, amendments, significant provisions and basic structure
- Separation of powers Fundamental Rights, Preamble, DPSP, Fundamental Duties, etc.
- Comparison of the Indian constitutional scheme with that of other countries
- Salient features of RP Act.

HISTORICAL UNDERPINNING

- Constitution: Why and How?
- Historical Background

EVOLUTION

- Constituent Assembly and its vision of future
- Making of the Constitution
- Constitution as a living document
- Democracy and diversity
- Outcomes of democracy
- Crisis of Democratic order
- National Commission to Review the Working of the Constitution
- Comparison of the Indian Constitutional scheme with that of other countries

FEATURES

- Sources of the Constitution
- Salient features of the Constitution
- The Philosophy of the Constitution
- System of Government: Parliamentary & Presidential System
- Role of Convention under the Constitution
- Comparison between Judicial Review and Parliamentary Supremacy

AMENDMENTS

- The Constitution Amendment of the Constitution
- Keshvananda and Bharti Case Judgement
- 42nd and 44th Amendment to the Constitution
- The Constitution (103rd Amendment) Act, 2019 (124th Constitution Amendment Bill) to provide 10% reservation in government jobs and educational institutions to the economically weaker sections (EWS)
- (125th Amendment) Bill, 2019

SIGNIFICANT PROVISIONS

- Preamble of the Constitution
 - Debate : Is Preamble part of the Constitution and its amendment
- Citizenship
 - National Register of Citizens
- Fundamental Rights
 - Rule of Law
 - Procedure Established by Law vs Due Process of Law
 - Exceptions to Fundamental Rights
 - Amenability of Fundamental Rights
 - Rights following from other provision of the Constitution
- Major Debates/ Issues around Fundamental Rights:
 - Limitations upon the Freedom
 - Freedom of Press and Censorship
 - Free Speech: Rights & Limits and Hate speech
 - Data protection: Privacy Vs. Innovation
 - RTI amendments
 - Sedition-Law- Comprehensive public discussion regarding Section 124A of the Indian Penal Code 1860
 - Right To Information Act 2005.
 - Defamation-Should it be decriminalised
 - 'Living wills'/ Euthanasia
 - Restriction on the entry of women in places of worship
 - Reservation in India – Explained in Layman's Terms
 - Reservation in promotion
 - Aadhaar and Privacy issues
 - Constitutionality of article 35A
- Directive Principles of the State Policy

- Scope of DPSP: Economic and Social Democracy
- Implementation of Directives
- Conflict between Fundamental Rights and role of judiciary in harmonizing them
- Challenge of implementing Uniform civil code
- Fundamental Duties
- Union Territories
 - Chief Minister Vs Lieutenant Governor: Rules, Rights and Responsibilities
- Special Status of Jammu and Kashmir
 - Kashmir Unrest
- Special Provisions for some States
- Scheduled and Tribal areas
- Official Language
 - Reasons for the 58th Amendment

MAJOR DOCTRINES

- Doctrine of Basic Structure of the Constitution
- Doctrine of Harmonious Construction
- Doctrine of Eclipse
- Doctrine of Pith and Substance
- Doctrine of Incidental or Ancillary Powers
- Doctrine of Colourable Legislation
- Doctrine of Severability
- Doctrine of Territorial Nexus
- Doctrine of Laches

PRESSURE GROUPS AND FORMAL/INFORMAL ASSOCIATIONS AND THEIR ROLE IN THE POLITY

- Pressure Groups
- Popular Struggles and Movements
- Rise of Popular movements

ELECTION & THE REPRESENTATIVES OF PEOPLE'S ACT

- Political Parties

- Criminalisation of politics
- Freebies Politics in India
- Issues Related to the Working of Political Parties
- Inner Party Democracy
- Significance of Strong Opposition in Democracy
- Elections
 - Role of Civil Society in Free and Fair Election
 - What is Tactical Voting and Proportional Representation?
 - What is Absentee Ballot?
- Voting Behaviour
- Election Laws
 - Representation of People (Amendment) Bill 2010- Voting rights to NRI
 - Introduction of NOTA
 - Bill on Right to Recall Legislators
- Electoral reforms
 - Demand For A Hybrid Electoral System
 - Simultaneous Elections
 - About Paper Trail units
 - Election Funding (Electoral bonds) Corporate funding laws
 - State Funding in elections
 - Women voices in elections
 - Law Commission Report on Electoral Reforms
- Anti-Defection Law
 - Anti-Defection Law: Is it time for reconsideration?

DEVELOPMENT PROCESSES AND THE DEVELOPMENT INDUSTRY

- The role of NGOs
 - NGOs and Development/ Crackdown on NGOs
 - Accountability and transparency in NGOs
- SHGs, various groups and associations, donors, charities, institutional and other stakeholders

MAJOR ISSUES

- Dalit assertion and Politics of reservation
- Should India spend more on science or Social welfare?
- Protection of Women from Domestic Violence Act 2005
- Agrarian crisis: Issues in farmer economy

- Issues related to Social Media
- Media freedom and Responsible reporting
- Marital rape
- Section 377: Constitutionality Vs Morality
- Legalising Sports Betting In India

MECHANISM, LAWS, INSTITUTIONS AND BODIES CONSTITUTED FOR THE PROTECTION AND BETTERMENT OF THESE VULNERABLE SECTIONS

- Special Provisions relating to Certain Classes
 - Muslim Personal law: Polygamy/ Triple talaq
- Scheduled and Tribal Areas
 - SC/ST Act judgment: Protecting the innocent or diluting the Protection?

Polity & Governance (Executive, Judiciary, Legislature (Mains)) UPSC SYLLABUS

- Functions and responsibilities of the Union and the States
- Issues and challenges pertaining to the federal structure
- Devolution of powers and finances up to local levels and challenges therein.
- Parliament and State Legislatures - structure, functioning, conduct of business, powers & privileges and issues arising out of these.
- Structure, organization and functioning of the Executive
- Ministries and Departments of the Government
- Structure, organization and functioning of the Judiciary
- Dispute redressal mechanisms and institutions

ISSUES AND CHALLENGES PERTAINING TO THE FEDERAL STRUCTURE

- Union and its territory
 - Formation of state and Altercation of boundaries
- Nature of Federal System
- Peculiar features of Indian federalism
- A Critique of the Federal System
 - Challenges of Nation building
 - Challenges Of Special Status State And Problems
- Demand for New states: Gorkhaland, Nagalim, Vidharbha, Purvanchal etc.

- Era of One-Party dominance
- Regional aspirations
- Emergency Provisions
 - Imposition of President Rule
 - Fundamental Rights during Emergency
- Conversion of state to UT unilaterally by centre-A constitutional question

STRUCTURE, ORGANIZATION AND FUNCTIONING OF THE UNION EXECUTIVE

- President
 - President of India – Discretionary Powers- Imposition of President's rule
 - Is President a mere Rubber Stamp
- Vice President
- Prime Minister
- Central Council of Ministers
- Cabinet Committees

STRUCTURE, ORGANIZATION AND FUNCTIONING OF THE STATE EXECUTIVE

- Governor
 - Provisions related to removal of Governor (Article 156)
 - Discretionary Powers
 - Politicization of the Post of Governor
- Chief Minister
- State Council of Ministers

PARLIAMENT

- Parliament
 - Sessions of Parliament: Adjournment, Prorogation, Dissolution etc.
 - Lacunas in Parliamentary Functioning in India
 - When Does a Bill Lapse in Indian Parliament?
 - Types of Majorities Used in the Indian
 - Election to Rajya Sabha: The Procedure.
 - Relevance of Rajya Sabha
 - Government Budgeting: Indian Budget for
 - Budget Documents Made Simple: Key to Budget Documents.



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- Cut Motions: Policy Cut, Economy Cut, and Token Cut.
 - Misuse of Ordinance promulgation power
 - Office of the Speaker: Powers and Issues
 - Issue related to office of profit
 - Breach Of Privilege: Special privileges to MP's and its implications
- Parliamentary Committees
 - Parliamentary Committees in Lok Sabha and Rajya Sabha.
 - Diminishing importance of parliamentary committees

STATE LEGISLATURE

- State Legislature
 - Full statehood to Delhi: Should it be granted or not?
 - Relevance of Council of State

FUNCTIONS AND RESPONSIBILITIES OF THE UNION AND STATES

7th Schedule

SEPARATION OF POWER

- Power Sharing
- Centre-State Relations
 - Inter-State Council vs National Development Council.
 - Separate State Flag in Karnataka
 - NITI Aayog: The new 'think-tank' to replace Planning Commission.
- Foreign Policy
- States demand a say in Foreign Policy?

DISPUTE REDRESSAL MECHANISMS AND INSTITUTIONS

- Inter-State Relations
 - Inter-state River Water Dispute
 - Inter-state Councils
- Parliamentary Forums
- Parliamentary Groups
- Administrative Tribunals
- National Integration

DEVOLUTION OF POWERS AND FINANCES UP TO LOCAL LEVELS AND CHALLENGES THEREIN

- Local Governments
 - Nagaland Reservation in Urban Bodies
 - Education Qualification made mandatory for contesting Local Government Elections
- Panchayati Raj and PESA 1996
- Municipalities
 - in Municipalities in Sync with Urban Development Missions

STRUCTURE, ORGANIZATION AND FUNCTIONING OF THE JUDICIARY

- Higher Judiciary Appointments
 - Collegium system and issues.
 - Collegium Vs. NJAC
 - CJI removal
- Judicial Review
- Judicial Activism
 - Judicial activism and judicial Overreach
 - Judicial Accountability & RTI Act
- Public Interest Litigation
 - Advocates (Amendment) Bill, 2017 Controversy
 - National Litigation Policy
- Other Judicial Issues
 - All India Judicial Services
 - Proposal for National Court of Appeal
 - Judicial Pendency
 - Judicial Reforms
 - Problems with Tribunals, Problems arising out of sidestepping the HC
 - Alternate Dispute Redressal (ADR)
- Major Judgements of Supreme Court
 - RIGHT TO CONVERT-the Supreme Court's judgement regarding a person's right to choose a religion, Issue of Religious Conversion in India,
 - Reservation in promotion, Argument in favour of reservation in promotion, Argument against the reservation in promotions
 - Supreme Court judgement on Caste, Religion in Polls
 - Validity of Aadhaar but with certain caveats
 - Cauvery River Verdict
 - Concept of Defamation in India
 - Should the SC proceedings be live streamed?

Governance (Mains)

UPSC SYLLABUS

- Pressure groups and formal/informal associations and their role in the Polity
- Government policies and interventions for development in various sectors and issues arising out of their design and implementation
- Development processes and the development industry the role of NGOs, SHGs, various groups and associations, donors, charities, institutional and other stakeholders
- Important aspects of governance, transparency and accountability
- E-governance-applications, models, successes, limitations, and potential
- Citizens Charters, transparency & accountability and institutional and other measures
- Role of civil services in a democracy
- Appointment to various Constitutional posts, powers, functions and responsibilities of various Constitutional Bodies
- Statutory, regulatory and various quasi-judicial bodies

GOVERNANCE

- Concept of Good Governance
- Issues Concerning Governance
- Right Based Approach in Policy Making
- Public Policy Making and Policy Implementation
- How to Establish Good Governance

TRANSPARENCY & ACCOUNTABILITY

- Right to Information
 - Information sharing and transparency in government
 - RTI and Official Secret Act: Who's winning and why Judiciary wants to remain isolated
- Citizen's Charters
 - Benefits of Citizen Charter
 - Citizen Charter in India: An Evaluation
 - Problems Faced in Implementing the Charters
 - Steps to improve Citizen Charters
 - Indian Approach to Citizen Charter: Sevottam Model

- Administrative Reforms Commission's Seven Step Model for Citizen Centricity
- Right to Service
- Extent of regulations and openness of media and social networking sites
 - K. Visanathan Committee On Hate Speech
 - Role of MEDIA in bringing Transparency and Accountability
 - Social Media and Accountability
- E-Governance
 - Role of E-Governance in bringing Transparency and Accountability
 - Major E-Governance Projects and challenges in their implementation
- Role of civil services in a democracy
 - Linkage of Civil Services and Democracy
 - Debate on Lateral Entry in Civil Services
 - Relation between Civil Servants and Political Executives
 - Performance Appraisal System in Bureaucracy
 - Reforms Needed In Indian Bureaucracy
- Codes of Ethics and Code of Conduct
 - Paid news abuse by social media a poll menace
 - Model code of conduct
- Utilization of Public funds
 - Significance of Public Accounts Committee
 - Challenges of corruption and incompetence

REGULATORY STRUCTURE AND GOVERNANCE REFORMS

- Functions and responsibilities of various Bodies
 - Analysis of Autonomy and functioning of CAG, CBI, CVC and NHRC
 - Lokpal and rise of Ombudsman era: a critical evaluation of journey traveled so far
 - State and operational effectiveness of Local governments in India
 - Corporate Governance in India - Why is it so critical
- Police Reforms in India
- Curb On VIP Culture
- Prison Reforms in India
- Improving Governance In Public Systems

DEVELOPMENT PROCESSES AND THE DEVELOPMENT INDUSTRY

- Role of Self Help Group in Development
- Shortcomings and Recommendations to Improve Self Help Group

- Role and functions of NGOs in the Development
- Challenges Faced by NGOs in India
- Issue of Fund Mismanagement
- Role of Microfinance Institutions in Development Process
- Issues Related to Microfinance Institutions and Recommendations
- Role of Foreign aid in Development
- The role and function of pressure groups in India
- Changing Pattern of Pressure Group Politics in India

SOCIO-ECONOMIC DEVELOPMENT

- Concept of Human Development
 - Economic Growth and Human Development: Two-Way Link
 - Measurement of Human Development
- Understanding Poverty
 - Dimensions of Poverty
 - Linkage between Poverty and Development
 - Recommendations of Rangarajan Committee Report
 - Poverty Alleviation Strategy Since Independence
 - Programmes for Poverty Alleviation
 - Concept of Inequality
 - World Inequality Report 2018: Findings of the Report
 - Income Inequality in India
 - Recommendations to Reduce Inequality
- HUNGER
 - Manifestations of Hunger and its causes
 - Challenges to Food Security
 - Global Hunger Index Report, 2018
 - Recommendations
- Institutional Measures for Welfare of Vulnerable Sections
 - Issues Related to the Weaker Sections & Vulnerable groups in India
 - Constitutional Provisions for the Welfare of Society
 - Institutional Measures for the Welfare of the Society
 - Issues with the Institutional Mechanisms
- HEALTH
 - Public Health System of India
 - Shortcomings of the Healthcare Sector
 - Urgency of achieving Universal Health Coverage



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- Evaluation of SWACHH BHARAT MISSION
- Global Nutrition Report 2018
- Initiatives Taken In Health Sector : Ayushman Bharat
- National Health Policy
- EDUCATION
 - Challenges of Education sector in India
 - Right to Education and Challenges to EWS Children
 - Initiatives by Government

ROLE OF CIVIL SERVICES IN A DEMOCRACY

- Concept of civil services
- Need for civil services
- Different role of civil services
 - Law making
 - Policy formulation
 - Policy implementation
 - Policy evaluation
 - Civil services as protector of democracy
 - To protect minorities (religious and linguistic)
 - To promote Inclusive and sustainable growth
 - Various Reforms in Civil Services

PRESSURE GROUPS AND FORMAL/INFORMAL ASSOCIATIONS AND THEIR ROLE IN THE POLITY

- What are pressure groups?
- Types of pressure groups
- Significance of pressure groups in India
- Differentiate between a pressure group and a political party
- Evaluation of pressure groups role

APPOINTMENT TO VARIOUS CONSTITUTIONAL POSTS, POWERS, FUNCTIONS AND RESPONSIBILITIES OF VARIOUS CONSTITUTIONAL BODIES

- Appointment of CAG (procedure of appointment)- composition of CAG

- Functions and responsibilities of CAG
- Powers and privileges of CAG (provided by constitution and different Acts of Parliament.)
- Appointment of ECI (procedure of appointment)- composition of ECI
- Functions and responsibilities of ECI
- Powers and privileges of ECI (provided by constitution and different ACTs of Parliament)
- Appointment to UPSC (procedure of appointment)- composition of UPSC
- Functions and responsibilities of UPSC
- Powers and privileges of UPSC (provided by constitution and different ACTs of Parliament.)
- Appointment to Finance commission (procedure of appointment)- composition of Finance commission
- Functions and responsibilities of Finance commission
- Powers and privileges of Finance commission (provided by constitution and different ACTs of Parliament.)
- National commission for SCs and STs.

STATUTORY, REGULATORY AND VARIOUS QUASI-JUDICIAL BODIES

- SEBI, CVC, CBI, Planning Commission NDC, PMO
- TRAI, IRDA
- National Human Rights Commission
- State Human Rights Commission
- Central Information Commission
- State Information Commission
- National Consumer Disputes Redressal Commission
- Medical Council of India
- Pension Fund Regulatory and Development Authority
- Biodiversity Authority of India
- Press Council of India
- Forward Markets Commission
- Inland Waterways Authority of India
- Role of CAG
- 14th Finance Commission: Analysis
- 7th Pay Commission Report and Repercussions
- AFSPA and Second ARC
- Inter-State River Water Dispute: Cauvery dispute
- Role of Niti Aayog

Contemporary Issues: Features of Indian Polity & Constitution (Mains)

RECENT BILLS & ACTS

- The Indian Institutes of Management (Amendment) Bill, 2025
- The Income-Tax (No.2) Bill, 2025
- The Taxation Laws (Amendment) Bill, 2025
- The Mines and Minerals (Development and Regulation) Amendment Bill, 2025
- The Manipur Goods and Services Tax (Amendment) Bill, 2025
- The National Anti-Doping (Amendment) Bill, 2025
- The National Sports Governance Bill, 2025
- The Indian Ports Bill, 2025
- The Immigration and Foreigners Bill, 2025
- The Protection of Interests in Aircraft Objects Bill, 2025
- The "Tribhuvan" Sahkari University Bill, 2025
- The Merchant Shipping Bill, 2024
- The Coastal Shipping Bill, 2024
- The Banking Laws (Amendment) Bill, 2024
- The Bills of Lading Bill, 2024
- The Carriage of Goods by Sea Bill, 2024
- The Railways (Amendment) Bill, 2024
- The Boilers Bill, 2024
- The Mussalman Wakf (Repeal) Bill, 2024
- The Waqf (Amendment) Bill, 2024
- The Oilfields (Regulation and Development) Amendment Bill, 2024
- The Readjustment of Representation of Scheduled Tribes in Assembly Constituencies of the State of Goa Bill, 2024
- The Disaster Management (Amendment) Bill, 2024
- The Bharatiya Vayuyan Vidheyak, 2024
- The Constitution (Scheduled Tribes) Order (Amendment) Bill, 2024
- The Water (Prevention and Control of Pollution) Amendment Bill, 2024
- The Constitution (Scheduled Castes and Scheduled Tribes) Orders (Amendment) Bill, 2024
- The Jammu and Kashmir Local Bodies Laws (Amendment) Bill, 2024
- The Public Examinations (Prevention of Unfair Means) Bill, 2024
- The Telecommunications Bill, 2023
- The National Capital Territory of Delhi Laws (Special Provisions) Second (Amendment) Bill, 2023
- The Central Goods and Services Tax (Second Amendment) Bill, 2023
- The Provisional Collection of Taxes Bill, 2023
- The Bharatiya Nyaya (Second) Sanhita, 2023
- The Bharatiya Nagarik Suraksha (Second) Sanhita, 2023
- The Bharatiya Sakshya (Second) Bill, 2023
- The Jammu and Kashmir Reorganisation (Second Amendment) Bill, 2023
- The Government of Union Territories (Amendment) Bill, 2023
- The Central Universities (Amendment) Bill, 2023
- Women's Reservation Bill 2023 [The Constitution (One Hundred Twenty-Eighth Amendment) Bill, 2023]
- Overview of Criminal Law Reforms



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- 103rd Constitutional Amendment Act
- Fugitive Economic Offenders Bill, 2018
- Triple Talaq Ordinance
- Citizenship (Amendment) Bill
- Draft Emigration Bill, 2019
- Consumer Protection Bill, 2018
- Prevention of Corruption (Amendment) Act, 2018
- Lokpal & Lokayukta Amendment Act, 2016
- The Right of Children to Free & Compulsory Education (Amendment) Act, 2019
- Data (Privacy & Protection) Bill, 2017
- The Transgender Persons (Protection of Rights) Bill, 2016
- The Indian Institute of Information Technology (Amendment) Bill, 2017 (autonomy of institutes)

ELECTIONS

- Criminalization of Politics
- Issues Related to the Working of Political Parties
- Enact Strong Laws to Cleanse Politics, says Supreme Court
- How effective is Election Commission in Ensuring Fair Elections
- Freebies Politics in India
- Election Commission Proposal for Countering Bribe-for-Votes
- Law Commission Report on Electoral Reforms
- State Funding in Elections
- Role of Civil Society in Free and Fair Election
- Women Voices in Elections
- Electronic Voting Machine (EVM) Issue
- About Paper Trail Units
- Anti-Defection Law
- Office of Profit & RPA

MISCELLANEOUS

- Constituent Assembly and its vision of future
- Making of the Constitution
- Constitution as a living document
- Democracy and diversity
- Outcomes of democracy
- Crisis of Democratic order



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- National Commission to Review the Working of the Constitution
- Comparison of the Indian Constitutional scheme with that of other countries

Contemporary Issues: (Executive, Judiciary, Legislature) (Mains) UNION & STATE GOVERNMENT

- Imposition of President Rule: An Analysis
- Is President a mere Rubber Stamp?
- Politicization of the Post of Governor
- Lacunas in Parliamentary Functioning in India
- Significance of Strong Opposition in Democracy
- Ordinance Making Power in India
- Balance between Fundamental Rights & Parliamentary Privileges
- Special Provisions for other States
- Special Category Status to States
- National Register of Citizens in Assam
- Gorkhaland Crisis
- Issue Related to Office of Profit
- Women Reservation in Parliament
- Centre vs State: Case of AAP vs LG

JUDICIARY

- Shortage of Judges in Indian Courts
- Issue Related to Appointment of Judges
- Procedure for Removal of Judges: Critical Analysis
- Should Judiciary be under RTI
- Judicial Accountability
- Post Retirement Appointment of Judges
- Issue of Judicial Overreach
- Judicial Reform: How to Reduce Pendency of Cases?
- Future Challenges of the Indian Judiciary
- All-India Judicial Service
- Draft witness protection scheme
- Contempt of Court
- Government as the Biggest Litigant in India
- Public Interest Litigation
- National Litigation Policy

- Administrative Tribunals
- Sabrimala Temple Verdict
- Right to Convert
- Alternate Dispute Redressal Mechanism
- Should India abolish Death Penalty?

LOCAL GOVERNMENT

- Education Qualification Made Mandatory for Contesting Local Government Elections
- Reforms needed in Municipalities in Sync with Urban Development Missions
- Municipal reforms for sustainable development of Cities
- 14th Finance Commission & Local Governments
- Telangana: Tribal Hamlets to Village Panchayat Status
- Maharashtra Government Recently Launched a new Initiative to
- Dharavi- one of the Largest Slums in the World
- Panchayat Raj
- Strengthening Participation of Women in Panchayat
- PESA in Tribal Areas
- Deepening Grass Root Democracy in Sixth Schedule Areas
- 2nd ARC Recommendations

ELECTIONS

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- About Paper Trail Units
- Anti-Defection Law
- Office of Profit & RPA



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MISCELLANEOUS

- Revisiting Section 124-A of IPC

Constitutional/Non-Constitutional Bodies

CONSTITUTIONAL BODIES

- Election Commission
- Union Public Service Commission
- State Public Service Commission
- Finance Commission
 - 14th Finance Commission and Local Governments
 - 15th Finance commission: Issues with Term and References
- State Finance Commission
- Law Commission
 - 268th Report of Law Commission on Bail Reforms
 - Law Commission report on Hate Speech
- Pay Commission
 - 7th Pay Commission
- National Commission for SCs
- National Commission for STs
- Special Officer for Linguistic Minorities
- Comptroller and Auditor General of India (CAG) , Functioning and Autonomy of CAG
- National Commission for Backward Classes
- Attorney General of India
- Advocate General of the State
- Co-operative Societies
- Tribunals
 - Problems with Tribunals, Problems arising out of sidestepping the HC

STATUTORY, REGULATORY AND VARIOUS QUASI-JUDICIAL BODIES

- Rationalization Of Autonomous Bodies
- National Human Rights Commission
- National Commission for Women
- State Human Rights Commission
- Central Information Commission
- State Information Commission



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- Central Vigilance Commission
 - Preventive Vigilance
- Central Bureau of Investigation
 - Autonomy of CBI
- Lokpal and Lokayuktas
 - Issues related to the appointment of Lokpal
 - Amendment to Lokpal Act
- Quasi judicial bodies
- NITI Aayog
 - NITI Aayog's Report on Rationalization of Centrally Sponsored Schemes (CSS)
- Model Land leasing Law prepared by NITI Aayog

Contemporary Issues: Governance (Mains)

SECOND ARC REPORT

- Functions of Government
- Issues in Organizational Structure of GOI
- Good Governance and Citizen Centric Administration
- e-Governance
- Ethics in Governance

INITIATIVES FOR TRANSPARENCY & ACCOUNTABILITY

- Public Accountability Concept
- Virtual ID for AADHAR
- Social Media & Accountability
- Accountability & Transparency in NGOs
- Autonomy of CBI
- Analysis of Functioning Of CAG
- People Centric Governance
- Pro-Active Governance & Timely Implementation (PRAGATI)
- Right Based Approach in Policy Making
- Direct Benefit Transfer
- Issues Related to Making Aadhaar Mandatory
- Reforms Needed In Indian Bureaucracy
- Performance Appraisal System In Bureaucracy
- Curb on VIP Culture
- Social Audit Law

ORGANISATION/BODIES

- 14th Finance Commission Analysis
- 7th Pay Commission Report &Repercussions
- AFSPA & Second ARC
- Role of NITI Aayog
- Significance of Public Accounts Committee
- Right to Information



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- Accountability & Transparency in NGOs

SCHEME

- PradhanMantri Jan-DhanYojana (PMJDY)
- Swachh Bharat Mission
- National Skill Development Mission
- National Food Security Act, 2013
- SansadAdarsh Gram Yojana
- Smart City Mission
- Saubhagya Plan
- NAMAMI GANGE
- Critical Analysis of Stand up India scheme
- MGNREGA

POLICIES

- NITI Aayog's Report on Rationalization of Centrally Sponsored Schemes (CSS)
- Law Commission's 268th Report on Bail Reforms
- Model Land Leasing Law Prepared by NITI Aayog
- T K Visanathan Committee on Hate Speech
- Law Commission Report on Tribunals in India
- Law Commission Report on United Nations Convention against Torture
- National Education Policy

MISCELLANEOUS

- Inter-State Water Dispute
- Debate on Directly Elected Mayor
- Debate on the Issue of Lobbying in India
- Media Role & Censorship Issue
- The Role of States in India's Foreign Policy

International Relations

International Relations (Mains)

UPSC SYLLABUS

- India and its neighborhood- relations.
- Bilateral, regional and global groupings and agreements involving India and/or affecting India's interests
- Effect of policies and politics of developed and developing countries on India's interests,
- Indian diaspora
- Important International institutions, agencies and fora, their structure, mandate

INDIA'S FOREIGN POLICY

- Evolution and Challenges
 - Evolution of India's foreign policy (Including NAM, Look East and Gujral Doctrine)
 - Determinants and challenges of India's Foreign Policy
- Recent Policies
 - Neighborhood first policy
 - Act east policy
 - Link west policy
 - Indian ocean outreach
 - Soft Power and Hard Power diplomacy
 - Defence and Nuclear Diplomacy
 - Space diplomacy
 - Para diplomacy-A New Way for Indian Foreign Policy?
 - Middle Power Coalition
 - Significance of PMO in foreign policy making
 - India's Strategic Connect with the World
 - Rise of Realpolitik in India's Foreign Policy in recent times
 - Indian Diaspora

INDIA AND ITS NEIGHBOURS

- India-China
 - Border dispute
 - China's string of pearls
 - China's Belt and Road Initiative: Prospects and Pitfalls
 - Maritime Silk Road" linking the Indian and Pacific Oceans
 - Why India is alarmed regarding BRI?
 - India's trade deficit with China
 - China's Malacca Dilemma
 - 2+1 Dialogue mechanism proposed by China
 - A rising China: Challenges the US primacy in Asia and role of India
 - Chinese project of diverting Tibetan waters
 - South China Sea: objection of China to India's presence
 - China denies CPEC backing as 'debt trap' for Pakistan (Debt trap diplomacy of China)
 - The Unintended Consequences of India's Policy on Citizenship for Tibetan Refugees
 - India's Concern in Joining RCEP
 - China's Economic Slowdown
- India-Pakistan
- Indo-Pak Relations : Border Dispute and J&K issue
 - Terrorism emanating from Pakistan
 - Indus waters policy shift
 - Dispute over Gilgit-Baltistan
 - CPEC in PoK
 - Nuclear India-Pak-US
 - Indian stance regarding Baluchistan
- India Bhutan
 - Bhutan's significance for Indian Foreign policy
 - India-Bhutan Friendship Treaty
 - Objection of Bhutan to India's Motor vehicle agreement
 - Bhutan's rejection of China's BRI
- India-Nepal
 - Indo-Nepal Relations : Fluctuating ties
 - Nepal's tilt towards China
 - Nepal-China Transit Agreement: An Evaluation
 - India's concern about Nepal's new Constitution
 - The Issue of Water and Hydropower Cooperation
 - Nepal Bharat Maitri Project

- India-Myanmar
 - Democracy in Myanmar
 - Scope for cooperation between N-E India & Myanmar
 - Rohingya issue
 - Buddhist Chauvinism
 - Major Projects: Kaladan multi-modal corridor, India-Myanmar- Thailand trilateral highway
- India-Bangladesh
 - Indo-Bangladesh Relations
 - Water Dispute Teesta water issue & Ganga river dispute
 - Bangladesh demand to stop the construction of the Tipaimukh Hydro- Electric Power Project on the Barak River
 - Differences in approach of India and China towards Bangladesh
 - Illegal Immigration
 - Understanding Bangladesh's Unexpected Development Success
- India-Afghanistan
 - Instability in Afghanistan and role of India
 - India's cooperation in Afghanistan
 - Moscow Format
- India-Maldives
 - Geostrategic Importance of Maldives
 - Recent developments in Maldives exemplifying recalibration of ties
 - FTA Between China and Maldives - Warning For India
- India-Srilanka
 - Sino-Sri Lanka Relationship
 - Fishermen issue
 - Issues on 13th amendment (Tamil & Minority Rights)
 - Human Right violations & OHCHR Resolution on Sri Lanka
- Indian Ocean Region
 - Indian Ocean region and world affairs
 - India is a "Net Security Provider" of the Indian Ocean
 - Increasing Chinese influence in the Indian Ocean
 - 20 years of formation of IORA
 - Piracy in the Indian Ocean
 - Seychelles' parliament refusal to ratify an Indian naval base plan on the Assumption Island
 - Importance of Seychelles to India
- Indo-Pacific
 - Concept of Indo-Pacific from perspectives different countries
 - East Asia Summit acts as a bridge for Indo-Pacific region
 - India-Pacific Regional Dialogue

- SAARC/BIMSTEC/BBIN
 - SAARC: Challenges and Prospects
 - Intra-low regional trade
 - BIMSTEC as an alternative to SAARC
 - Nepal withdrew from first ever BIMSTEC's military drill in India.
 - Progress of BBIN project
- Global Issues
 - Disarmament
 - Climate Change
 - Terrorism
 - Global Governance
 - Indian Diaspora

INDIA AND EXTENDED NEIGHBOURHOOD

- India-Indonesia
 - Indonesia's vision as a "Global Maritime Axis." and its significance for India
- India-Singapore
 - India-Singapore Bilateral Agreement for naval cooperation
- Thailand
 - Indo-Thai relations: Challenges & opportunities
- India-Vietnam
 - India -Vietnam's strategic cooperation
- India-ASEAN
 - Importance of ASEAN in establishing peace and stability in region
 - ASEAN-India Relations: Prospects and Challenges in Economic Partnership
 - India's cooperation with the ASEAN has been less than China and Japan

CENTRAL ASIA

- Connect Central Asia Policy
 - Importance of central Asia
 - Golden Crescent
 - Connectivity Projects (INSTC, Ashgabat Agreement, TAPI Pipeline)
- India Mongolia
 - India-Mongolia Bilateral Cooperation
 - Mongolia launched construction of first strategically oil refinery, constructed by India

WEST ASIA/MIDDLE EAST

- Importance of West Asia for India
- Change in West Asian strategic thinking
- China's engagement in West Asia and challenges to India
- Reasons behind India's active strategic engagements with West Asian countries without participating in West Asian turmoil
- Shia-Sunni wedge in West Asian countries
- Importance of Saudi Arabia, Challenges in India-Saudi Arabia Relations
- Plight on Indian migrant workers.
- Relations between India and United Arab Emirates
- Middle East to India Deep water Pipeline (MEIDP)
- India-Iran
 - Consolidating India-Iran Cooperation
 - Connectivity- Importance of Chabahar port
 - Iran nuclear deal: Iran Sanctions & India's Options
- India Israel:
 - From 'in the closet' into a fast-developing open relationship
 - strategic significance of the Indo-Israeli relationship
 - De-hyphenation of Israel and Palestine

INDIA AND WORLD

- India-Africa
 - India-Africa Trade relations: Prospects
 - Contribution of Indian Diaspora in various fields in Africa.
 - African co-operation in ensuring security and peace in Indian Ocean region
 - India's Foreign Direct Investment (FDI) in Africa's hydrocarbon sector.
 - Strategic Partnership between India and South Africa
- India-Europe
 - The first India-Nordic Summit
 - What is GDPR? its implication for India
 - influx of refugees into Europe
 - irritants between India-EU (FTA)
 - A new European Union strategy for India
 - Ukrainian Crisis' has lead to resurgence of cold war
 - Brief on India-UK relations
 - Brief on India-France relations

- India and USA
 - Brief of India-US relations
 - Mutually supportive Defence cooperation relationship
 - logjams in implementation of civil nuclear cooperation agreement between India and the USA
 - Bilateral Social Security Agreements
 - The rise of protectionist regime in USA and the challenges for the Indian
 - Importance of New Security strategy (NSS) of USA for India
 - Recent US extraterritorial Sanctions and their potential impacts on India
 - Potential impact of US sanctions towards Russia, Iran and North Korea using CAATSA on US-India relation,
 - USA pulls out of INF treaty-Its implication for India
 - Pivot to the East policy of the USA
 - The Arithmetic of India-U.S. Relations and the Russian Factor
 - The First India-US 2+2 Dialogue: An Assessment
 - Challenges in Implementing JCPOA after the US Withdrawal
 - LEMA-Logistics Exchange Memorandum of Agreement
 - Visa, Free Trade and WTO
- India-Canada
 - Uranium Deal
- India-Russia
 - India's increasing defence deal with USA, Israel
 - Russian arms deal with Pakistan
 - Stagnation between India-Russia Relations
 - Russian proposal of 'Eurasian Economic Union
- India-Japan
 - Japan's funding of major projects in India
 - Nuclear Pact
 - Japan's Pacifism
 - 13th annual India - Japan summit
- India-Australia
 - Australia's "An India Economic Strategy to 2035", a vision document
 - Nuclear cooperation between India- Australia

INTERNATIONAL ORGANISATION AND GLOBAL ISSUES

- United Nation and UNSC
 - UNSC Reforms : Importance and Challenges
- BRICS

- Advantages of setting up the New Development Bank
- Prospects and Challenges of BRICS
- Commonwealth
 - Shared history of Commonwealth
 - Relevance in current time and Areas of Cooperation
- Shanghai Cooperation Organization
 - Benefits and challenges of India's entry in SCO
- IMF – The International Monetary Fund:
 - issues concerning the reforms in Bretton Wood twins and needs structural reforms to reflect post globalization realities of the world
- NATO – The North Atlantic Treaty Organization:
 - Relevance of NATO in post USSR era
- TPP – The Trans-Pacific Partnership:
 - Will RCEP prove to be a competitor of TPP in the Asia-Pacific region
- WTO – The World Trade Organization:
 - Doha round and Singapore Agenda: Challenges in implementation
 - USA-India dispute
 - Need to revamp WTO
- Arctic Council:
 - Arctic is attracting global interest
- IAEA
 - India's nuclear facilities under IAEA safeguards
- UK Referendum – Brexit
 - Consequences of Brexit for United Kingdom and European Union,
 - Effect of Brexit on China and India
- Refugee problem:
 - Does the world need a new UN convention on refugees
 - United Nations member states (except the U.S. and Hungary) agreed on a Global Compact for Migration to better manage international migration
- Terrorism:
 - Reasons of rise of far right wing politics in many developed and developing countries
 - The Comprehensive Convention on International Terrorism (CCIT)
 - UNSC's 1267 Al Qaeda Sanctions Committee on Jaish-e-Mohammad Chief Masood Azhar
 - Security Council Resolution 2322 to enhance the efficacy of international legal and judicial systems
 - Lone-wolf attacks.
- Yemen Crisis-
 - Yemen Crisis: Reasons and impacts

- South China Sea
 - Contention over South China Sea and South China Sea Ruling
 - Senkaku and Diaoyu conflict between China and Japan
 - Role of India in the wake of increasing South China Sea dispute
- Other
 - World coming towards a new multi-polar order with USA as a waning superpower and China-Russia axis as an emerging challenger
 - India and the International Solar Alliance
 - Venezuela-Columbia Border Issue
 - AIIB & The Changing World Order
 - Multilateral export control regimes : Significance and challenges of India's Entry
 - US-Venezuela Stand-off : Impact on Global Oil Prices
 - Renaissance and Reticence in India's North-South Connectivity Platform
 - Strategic Petroleum Reserves: Stocking Oil for Rainy Days
 - QUAD: Strategic and economic benefits
 - India has been accorded associate member status by IEA.; Its importance for India
 - Why RIC is as important to India as JAI and BRICS?
 - Rising Protectionism and Currency Wars
- Indian Diaspora
 - Role played by Indian Diaspora
 - Issue of safety of Indians abroad
 - Schemes for Welfare of Overseas Indian
 - Indian Diaspora in Gulf
- Nitaqat law and Present Status

Contemporary Issues: International Relations (Mains)

FOREIGN POLICY OF INDIA

- Foreign Policy of India
- Virtue of Soft Power
- Middle Power Coalition
- Terrorism
- Appendix: Global Terrorism Index 2017
- Diplomacy of Buddhism
- Indian Navy at the Front Seat of Indian Foreign Policy
- Indian Diaspora
- Indian Diaspora in Gulf

NEIGHBOURS

- India's Neighbourhood Policy
- China
- South China Sea ruling
- Water Diplomacy through Dams
- Chumbhi Valley and Doklam Plateau
- Why China is Winning over India's Neighbors?
- India, China ink first-ever Internal Security Cooperation Agreement
- Nepal
- Rebooting India Nepal Ties
- Nepal Withdrew From First Ever BIMSTEC's military drill in India
- Pakistan
- Shift Indus Waters Treaty Policy
- Afghanistan
- Heart of Asia Conference
- Sri Lanka
- Bangladesh
- Myanmar
- Maldives
- FTA between China and Maldives - Warning for India
- Bhutan



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BILATERAL RELATIONS

- Act East Policy
- Australia
- Indonesia
- Singapore
- South Korea
- Thailand
- Vietnam
- Philippines
- Iran
- Saudi Arabia
- U AE
- Slowdown in West Asia
- Return of Retrenched Workers
- Race for Resources in Central Asia
- Kazakhshtan
- Mongolia
- Island Nations
- Africa
- Nigeria

GLOBAL POWERS

- USA
- A new European Union strategy for India
- Germany
- Japan
- Appendix: Asia-Africa Growth Corridor (AAGC)
- France
- Russia
- Decline in Indo-Russia Relations
- Why RIC is as important to India as JAI and BRICS?
- UK
- Brazil
- Israel
- India's De-hyphenated Policy

INTERNATIONAL ORGANIZATIONS & AGREEMENT



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- IMF
- World Bank
- WTO
- G-20
- ASEAN
- BIMSTEC
- Indian Ocean region and world affairs
- BRICS
- Asian Infrastructure Investment Bank
- Trans Pacific Partnership (TPP)
- Regional Comprehensive Economic Partnership and India
- Multilateral Negotiations for a Nuclear Weapons Ban
- Wassenaar Arrangement and India
- India Admitted to Australia Group
- IAEA
- Nuclear Security Summit
- Non-Alignment Movement (NAM)
- UNSC Reform

GLOBAL ISSUES

- International Terrorism
- Migration Crisis in Europe
- Rising Protectionism and Currency Wars
- Greek Debt Crisis
- Iran Nuclear Deal
- US Sanctions on Iran
- Global Initiative Launched to Fight Fake News
- What does US Recognition of Jerusalem Means?
- YEMEN WAR and Implications
- Why Saudi Arabia is Moving Towards Reforms?
- Rohingya Repatriation Deal Signed

Economy

Economy (Prelims)

BASIC CONCEPTS

- Macroeconomic Concepts
 - Meaning of Economics
 - Types of Economies
 - Sectors of an Economy
 - Other Sectors of Economy??
- Microeconomic Concepts

ECONOMIC MEASUREMENTS

- National Income Concepts and Methods of Calculation
 - National Income
 - Real National Income
 - Calculating National Income
 - Gross Fixed Capital Formation (GFCF)
 - National?Organizations?Related to National Income Accounts?
 - Latest India's National Income Estimates
 - New Series of National Statistics (Base Year 2011-12)
 - Annual Estimates of Expenditures on GDP
 - Per Capita Income
 - Purchasing Power Parity
 - Lorenz Curve
 - Philip's Curve
 - Gini Coefficient
- ?Inflation
 - Concepts and Types of Inflation
 - Causes of Inflation
 - Effects of Inflation
 - Measures of Inflation
 - WPI, CPI
 - Producer Price Index

- GDP Deflator
- Core Inflation
- Change in Reporting of Inflation
- Measures to Check Inflation??
 - Fiscal Measures
 - Administrative Measures
 - Monetary Measures
- Economic Growth and Development
 - Economic Growth
 - Economic Development
 - Measurement of Economic Development
 - Physical Quality of Life Index (PQLI)
 - Millennium Development Goals (MDGs)
 - Different Levels of Economic Development
 - Economy and Environment?
 - Environment? Taxes
 - Carbon Tax
 - Green Accounting
 - 12th Five Year Plan and Sustainability?

MONEY AND BANKING

- Money Function and Classification
 - Money Concept
 - Measures of Money Supply in India
 - Indian currency system
 - Broad and Narrow Money
 - Money multiplier
 - Digital Money
 - New Monetary Aggregates
 - Monetary Policy
- Financial Market and its Instruments
 - Concept and functions of financial markets
 - Importance of money market
 - Types of capital market
 - Distinguish between capital market and money market
 - Nature and functions of a stock exchange
 - Advantages of stock exchanges

- Limitations of stock exchanges
 - The stock exchanges in India
 - Insurance Industry - Insurance Industry and Reforms
 - Role of Financial Regulators: SEBI and IRDA
- Banking Structure in India
 - Scheduled Commercial Banks
 - Nationalized Banks
 - Public Sector Banks
 - State Bank of India
 - Private Banks
 - Foreign Banks
 - Regional Rural Banks
 - Scheduled Co-operative Banks
 - Reserve Bank of India (RBI)
 - Methods of Credit Control
 - Cash Reserve Ratio (CRR)
 - Statutory Liquidity Ratio (SLR)
 - Repo Rate
 - Reverse Repo Rate
 - Call Rates
 - Marginal Standing Facility (MSF)
 - Bank Rate
 - Banking Sector Reforms in India
 - Differentiated Banks
 - Payment Banks
 - Small Banks
 - New banking licence
 - White Label ATM
 - Unified Payments Interface
 - Bank Board Bureau
 - Marginal Cost of Funds Based Lending Rate (MCLR)
 - Priority Sector Lending Certificates
 - Concept of Micro ATM
 - Banking Reforms
 - Basel Norms
 - Banking Ombudsman
 - Development Financial Institutions
 - Insurance Companies
 - Recent developments in Economic Sector

- Government to recapitalize the PSB's
- RBI rule and regulation for peer to peer (P2P) lending
- Domestic Systemically Important Banks (SIBs) of India
- Financial Inclusion in India
- The Concept of Bad Bank
- Alternative Mechanism Panel for PSB consolidation
- Employee Provident Fund of India
- Enforcement Department In RBI
- Gold Monetization Scheme (GMS)
- Indian Post Payment Bank (IPPB)
- Indian Gold Coins/Gold Bullion Scheme

PUBLIC FINANCE IN INDIA

- Budgeting
 - Union Budget
 - Plan and Non Plan Expenditure
 - Revenue Receipts
 - Tax Revenue Receipts
 - Non-Tax Revenue Receipts
- Fiscal Policy
 - Fiscal Responsibility and Budget Management (FRBM) Act, 2003
 - Revenue Deficit, Fiscal Deficit, Primary Deficit
 - Deficit and Surplus Budget
 - Deficit Financing
- Centre State Distribution
 - Finance Commission (A280)
- Tax Structure in India
 - Tax – Direct Tax, Indirect Tax
 - Methods of Taxation – Progressive, Regressive, Proportional
 - Value Added Tax – VAT in India
 - Goods and Services Tax – GST, GST Council
 - Service Tax
 - DTC – Direct Tax Code

PLANNING

- Meaning Objectives and History
 - Meaning of Economic Planning
 - Objectives of Planning
 - Strategies of Planning
 - Harrod Domar strategy
 - Nehru Mahalonobis strategy
 - Gandhian strategy
 - LPG strategy
 - Regional and National Planning
 - Imperative and Indicative Planning
 - History of Planning in India
 - Visvesvaraya Plan, Gandhian Plan FICCI Proposal, Congress Plan Bombay Plan
 - Planning Commission and National Development Council(NDC)
 - Central Planning – 5 Year Plans, 20 Point Program, MPLADS
 - Decentralized Planning
- Planning Institutions
 - Planning Commission
 - NITI Aayog
 - National Development Council (NDC)
- Five Year Plans in India
 - 12th Five Year Plan (2012-2017)
 - Alternative Scenarios During 12th Plan
 - Economic Reforms?

OPEN ECONOMY

- Foreign Trade Concepts
 - Balance of Payments
 - Foreign Capital – FDI, FPI, FII, QFH
 - Foreign Exchange–Exchange Rate NEER & REER, ETF
 - FERA & FEMA
 - Capital Account Convertibility in India
 - India's External Debt
 - NRI Deposits
 - Trade Composition
- Trade Policy and Agreements

- Import Cover
 - Import/Export Controls
 - Foreign Trade policy 2015-20
 - Export Promotion
 - General Agreement on Tariffs and Trade
- Exchange Rate
 - Exchange Market
 - LERMS
 - NEER
 - REER
 - ETF
- International Organization
 - United Nations
 - Food and Agriculture Organization (FAO)
 - International Civil Aviation Organization (ICAO)
 - International Fund for Agricultural Development (IFAD)
 - International Labour Organization (ILO)
 - International Maritime Organization (IMO)
 - International Monetary Fund (IMF)
 - International Telecommunication Union (ITU)
 - United Nations Educational, Scientific and Cultural Organization (UNESCO)
 - United Nations Industrial Development Organization (UNIDO)
 - Universal Postal Union (UPU)
 - World Bank Group (WBG)
 - International Bank for Reconstruction and Development (IBRD)
 - International Finance Corporation (IFC)
 - International Development Association (IDA)
 - World Health Organization (WHO)
 - World Intellectual Property Organization (WIPO)
 - World Meteorological Organization (WMO)
 - World Tourism Organization (UNWTO)
 - World Trade Organization (WTO)
 - Asian Development Bank
 - Asian Infrastructure Investment Bank (AIIB)
 - New Development Bank
 - African Development Bank
- Trade Agreements
 - RCEP
 - TPP

- NAFTA
- MERCOSUR
- Southern African Development Community (SADC)
- ASEAN
- SAFTA
- Recent Developments in External Sector
 - Global foreign exchange committee
 - Price capping of medical devices in India
 - Review of the International Investment Agreement (IIA)
 - India signed the OECD multilateral convention to prevent BEPS (Base Erosion and Profit Shifting)
 - Second Exchange Traded Fund (ETF) Bharat 22
 - Double Tax Avoidance Treaty
 - Preferential Trade Agreement with Chile
 - Advance Pricing Agreement
 - National Committee on Trade Facilitation
 - E-tourist Visa
 - India's Asylum Policy
 - Investor-State Dispute Settlement (ISDS)

ECONOMIC SECTORS

- Poverty
 - Definition and Indices
 - Poverty in India
 - Human Poverty Index (HPI)
 - Expert Groups for Estimating Poverty
 - Inequality
- Employment
 - Employment and Unemployment
 - Poverty Eradication and Employment Related programs
- Government Schemes and Programs
 - New Social Welfare Schemes
 - Pradhan Mantri Jeevan Jyoti Bima Yojana (PMJJBY)
 - Other Social Protection Programmes
 - Rural Infrastructure and Development
 - Urban Infrastructure, Housing and Sanitation
 - Education Schemes
 - Financial Inclusion Schemes



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- Health Schemes
- Women Empowerment?Programmes
- Other Women Empowerment?Programmes
- Social?Security
- Committees
 - Ratan P Watal Committee on Digital Payment
 - Committee for Market Infrastructure Institution (MII)
 - P. J. Nayak Committee
 - Deepak Mohanty Committee Report on Medium-term Path on Financial Inclusion
 - Narasimham Committee Report on Banking Sector Reforms
 - Uday Kotak Committee on Corporate Governance
 - Nachiket Mor Committee

IT AND TELECOM SERVICES

Sectors Of Indian Economy (Mains)

UPSC SYLLABUS

- Major crops cropping patterns in various parts of the country
- Different types of irrigation and irrigation systems storage
- Transport and marketing of agricultural produce and issues and related constraints
- e-technology in the aid of farmers
- Issues related to direct and indirect farm subsidies and minimum support prices
- Public Distribution System - objectives, functioning, limitations, revamping; issues of buffer stocks and food security
- Technology missions
- Economics of animal-rearing
- Food processing and related industries in India- scope and significance, location, upstream and downstream requirements, supply chain management.
- Land reforms in India.
- Effects of liberalization on the economy
- Changes in industrial policy and their effects on industrial growth. Other economic development in field of Manufacturing and service sector

ROLE OF AGRICULTURE IN INDIAN ECONOMY

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

LAND REFORMS

- Objectives of Land Reforms in India
- Progress of Land Reforms in India
- NITI Aayog Report on Land Leasing

AGRICULTURE FINANCE

- Features of Agricultural Finance
- Criteria for Agricultural Credit



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- Need for Agricultural Finance
- Sources of Agricultural Finance
- Problems of Agricultural Finance
- Measures taken to improve credit flow to agriculture
- Co-operative Credit Societies in India

AGRICULTURAL CREDIT INSTITUTIONS

- Multi Agency Approach
- Commercial Bank
- Lead Bank Scheme
- Regional Rural Banks
- National Bank for Agriculture and Rural Development (NABARD)
- Reserve Bank of India
- Kisan Credit Card Scheme
- Bank Linkage Programme
- Rural Infrastructure Development Fund (RIDF)
- Government Policy For Agricultural Credit
- Farmers Service Societies (FSS)

CROP INSURANCE IN INDIA

- Issues Related to Crop Insurance
- Pradhan Mantri Fasal Bima Yojana
- Comparison with Earlier Crop Insurance Schemes

AGRICULTURE MARKETING

- Process of Agricultural Marketing in India
- Structure of Agricultural Marketing in India
- Importance of Proper Agriculture Marketing
- Government Measures to Improve Agricultural Marketing in India
- Analysis of APMC Act



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SUBSIDIES

- Objectives of subsidies
- Transfer of resources from gainers from economic policies to losers from economic policies
- Farm Subsidies
- Fertiliser subsidies
- Subsidy on power
- Subsidy on irrigation
- Rationale of Minimum Support Price
- Impact of MSP on inflation
- 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 Fibre Revolution: Jute

FOOD PROCESSING

- Processed Foods Scenario with respect to Specific Sectors
- 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

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 and globalization
- Phases of Industrial development since independence

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

Policy & Reforms In Indian Economy (Mains)

UPSC SYLLABUS

- Indian Economy and issues relating to planning, growth, development and unemployment
- Mobilization of resources
- Government Budgeting.
- Investment models.
- Financial and Money Market
- Inflation
- Direct and Indirect taxes
- Inclusive growth & issues arising from it.

INDIAN ECONOMY AND ISSUES RELATING TO PLANNING

- Role and objectives of Indian Planning
- Planning Experience at the Centre and State level.
- Regulatory Role of the State
- Development Strategy in India's Five Year Plan
- Mahalanobis' Four-Sector Growth Model and Employment Generation
- Tackling the Problems of Poverty and Unemployment
- Vital Role of the Public Sector
- Analysis of India's Economic Performance in Development Planning
- Trends in Saving and Capital Formation since Independence
- Role of NITI Aayog in Cooperative federalism

RESOURCE MOBILIZATION

- Types of Resources: Physical and Financial
- Need for Resource Mobilization- Police State and Democratic Welfare State policies
- Sources of Resource Mobilization: Public Sector and Private Sector
- Taxation and Mobilization of Resources for Economic Growth
- Direct Taxes and Mobilisation of Resources
- Agricultural Taxation & Resource Mobilisation
- Role of Indirect Taxes in Resource Mobilisation
- Mobilization of financial resources through Government Revenues
- 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
- Multi-lateral agencies and resource mobilization
- Challenges to Resource Mobilization

INCLUSIVE GROWTH AND ISSUES ARISING FROM IT

- Meaning and concept of Inclusion
- India's experience of Inclusion
- Why India's growth is not inclusive?: Rural economy based growth, Need of Sustainable agriculture, food security and resilience for growth
- What are the solutions?
- Inclusion process through Social sector flagship schemes and Ground realities

- Public distribution schemes: Can it be the 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

GOVERNMENT BUDGETING

- Budget terminology
- Types of budget
- Features of Outcome budgeting , Gender Budgeting
- Benefits of budgeting
- Flaws in budgeting process
- Merger of Railway and General Budget
- Budget analysis

INVESTMENT MODELS

- Measures of Investment
- Factors affecting investment
- Classification of Investments : FDI
- Angel Investors and Start-ups
- Investment Models
- Role of State
- PPP (Public-Private Partnership)
- Savings and Investment Trends

FISCAL POLICY

- Fiscal Concept and Fiscal Policy in India
- Government Revenues & Spending Trends
- Impact of deficits on economic growth
- Twin Balance Sheet syndrome

- Types of Deficit

TAXATION

- Objectives and Principles of Taxation
- Taxation for Mobilization of Resources
- Taxation System in India
- Tax Reforms
- GST and its impact on different sectors
- Subsidies and its Impact

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

- Money Market and Capital Market in India
- Regulatory Framework in Indian Capital Market
- Primary Market Reforms in India
- Secondary Market Reforms in India
- Current and capital account convertibility
- Risks of financial system

BANKING

- Indian Banking System
- Terminologies/Concepts Related to Banking in India
- Nationalization of Banks in India
- Functions of Commercial Banks
- Challenges Faced by Commercial Banks in India
- Banking Reforms in India



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- New Bank License Criteria
- Small Finance Banks and Payment Banks Criteria
- Non-Banking Financial Company (NBFC)
- Financial Inclusion
- Issue of NPAs
- Bills related to Banking

FOREIGN TRADE & INTERNATIONAL ORGANIZATIONS

- Trends in International Trade
- Foreign Trade Policy
- Balance of Payments and Foreign Capital
- Impact of Globalization on Indian Economy
- International Monetary Fund (IMF)
- World Trade Organisation (WTO)
- World Bank Group AIIB and NDB

Contemporary Issues: Sectors Of Indian Economy (Mains)

INDUSTRY & LABOUR

- Draft National Food Processing Policy Released
- Initiatives for Fund for Start-Ups
- Companies Need to Look Beyond CSR
- Initiatives to Support MSME Sector
- Model Shop & Establishment Bill, 2016
- National Capital Goods Policy 2016 unveiled
- H-1B Visa Rule Change & It's Impact on IT Sector
- Unemployment Survey
- Draft Social Security Code
- Analysis of Competition Commission of India
- Exit Issues and Insolvency Resolution Process
- Government Limitations in Job Creation
- The Code on Wages, 2019

- Amendments in Bankruptcy Code
- Contract Worker: Issues and Steps Needed
- Feminization of Agriculture
- Challenges and opportunities of fourth Industrial Revolution
- Why Manufacturing Sector is not able to Generate Jobs?
- Inequality between Large Business Houses & Smaller Businesses
- How Labour Regulations Affect Manufacturing?

AGRICULTURE

- Niti Aayog Launches Agricultural Marketing & Farm Friendly Reforms Index
- Defects in Procurement Policy
- Reforming Trade in Agriculture Products
- Draft Model APMC Act, 2016
- NITI Aayog Report on Agriculture
- Agriculture Export Policy, 2018
- Farm Policies: One-Size-Fits-All do not Work
- Lab to Land: How to Improve
- Agriculture Price Policy in India

INFRASTRUCTURE

- Inland Waterways in India
- Aviation Sector & Regional Connectivity Scheme: Udan
- Air Service Agreement
- Airline Sector: Downtime and the Turnaround
- Privatization of Air India: Critical Analysis
- Help Scheme
- Multi-Modal Transport System
- Bharatmala Pariyojana : Revolution In Indian National Highways
- Privatization of Railways
- Transformation in Indian Railways
- Connecting North East
- Optimising Thermal Power in India
- Reliable and Affordable Energy
- Mineral Auction Rules, 2015

Contemporary Issues: Policy & Reforms In Indian Economy (Mains)

BUDGET & TAXATION

- Low Tax to GDP Ratio: Reasons and Suggestions
- Public Debt Management Cell
- IBBI and Insolvency Rules
- Ponzi Scheme and Issues
- Fat tax: Concept Analysis
- Concept of Municipal Bonds
- Lower Taxes, Higher Compliance: Implication on Economy
- How Shell Companies are used in Black Money?
- Offshore Investments in Tax Havens
- Concept of Google Tax and its Implications
- Sunset Clause and its Significance in Policies
- Government Rule on Capital Gains Tax
- Credit Rating Agencies and their Implications
- Fugitive Economic Offenders Bill

BANKING & FINANCE

- Concept of Wilfull Defaulter
- Concept of Shadow Banking
- Non Performing Assets
- Marginal Cost of Funds based Lending Rate
- Unified Payment Interface
- India Post Payments Bank
- Differentiated Bank Licenses
- Digital Payments Scenario
- Monetary Policy Committee
- Report of Working Group on Development of Corporate Bond Market in India
- IL & FS issue and Corporate Governance in India
- SEBI reforms on Corporate Governance – Uday Kotak Committee
- SEBI and Commodity markets in India
- Concept of Crypto-Currencies



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- Crypto Currencies Come Under SEBI Lens
- Corporate Governance: Role of SEBI
- Peer to Peer Lending Firms
- Bank Recapitalization Program
- Lessons on NPA from Global Banks
- Need of Regulatory Regime for Alternative Investment Fund
- Name and Shame Willful Defaulters

SCHEMES & POLICIES

- Sustainable Development Goals
- Ease of Doing Business
- Critical Analysis of PM Crop Insurance Scheme
- Bhavantar Bhugtan Yojana
- Operation Greens
- Critical Analysis of Banks Board Bureau
- Critical Analysis of Draft Energy Policy
- Critical Analysis of Stand up India Scheme
- New PPP Policy
- Sagarmala Project
- Critical Analysis of Bharatmala Project
- GST ANALYSIS
- How GST has Affected Small Business

EXTERNAL SECTOR

- FDI Status and Issues in India
- Permanent Residency Status for Foreign Investors
- WTO Reforms and India's Stance
- Dispute Settlement Mechanism at WTO
- Gist of Foreign Trade Policy (FTP) 2015-2020
- Reforms in IMF Quota
- Rising New Form of Protectionism
- BIT Dispute Management Strategy
- Broad Based Trade and Investment Agreement (India-EU FTA Talks)
- Nachiket Mor Committee
- P J Nayak Committee
- Vijay Kelkar Committee on PPP Reforms



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- Parthasarathi Shome Committee on GAAR
- Urjit Patel Committee Report on Monetary Policy
- Mahapatra Committee (NBFC Loan Restructuring)
- Usha Thorat Committee (2012)
- Bibek Debroy Committee (Railways)
- N K Singh Panel Report on FRBM Act
- Shanta Kumar Committee
- Watal Committee on Digital Payments
- HR Khan Committee on Foreign Portfolio Investment
- Strategic Partnership Policy to Boost Defence Manufacturing: Dhirendra Singh Committee

Science And Technology

Science And Technology (Prelims)

SCIENCE & TECHNOLOGY IN INDIA

- Policy Development of S&T in India
 - Role of S&T in the Developing World
 - S&T Policy in India
 - The S&T Policy Resolution in 1958
 - S&T Policy of the 1983
 - S&T Policy of the 2003
 - S&T Policy 2013
 - Science and technology as a source of Human Resource Development
 - Awards related to Science
 - New Initiatives Aligned with the National Agenda
 - India and World collaboration in science projects
 - Technology Vision Document 2035
 - National Biotechnology Development Strategy 2015-2020
 - National Intellectual Property Rights Policy
 - Organ donation rules in India
 - Policy on Synthetic Biology
- Different Organization Institution and Various Department for the S&T
 - List of Various Centre Institutions and Bureaus
 - Ministries and Department for science and Technology
 - Institutional structure
 - Department of Science & Technology
 - CSIR
 - Survey of India
 - Science and Engineering Research Council
 - Technology Development Board
 - National Accreditation Board for Testing and Calibration Laboratories

SPACE

- Space Research Programme, Orbits and Launch
 - Space Technology
 - Indian Space research Programme
 - ISRO and ANTRIX
 - Orbits Type
 - Satellite Launching Systems
 - Terminologies Related to the Space Science
- Satellites, Launch Vehicles and India Satellite Programmes
 - Earth Observation Systems
 - Satellite Communication in India
 - Remote sensing applications - IRS Sytems
 - INSAT Satellite Application
 - GSAT Satellite Application
 - Launch vehicle Technology
 - GSLV and Various Engine
 - Recent National and International Space Missions
 - Cryogenic rockets
 - Global Positioning System
 - Galileo
 - GLONASS
 - IRNSS
 - GAGAN
 - Chandrayaan – I & II
 - Mars Orbitor Mission
 - Space Organisations
 - Space race/Space junk
 - Recent updates
 - South Asia Satellite: Significance
 - Neutrino Observatory
 - Solar Mission- ADITYA
 - Gravitational Waves
 - RECENT DEVELOPMENTS
 - Spitzer Space Telescope
 - Chandra X-Ray Observatory
 - Multi Application Solar Telescope
 - Thirty Metre Telescope

- Resourcesat-2A
- Astrosat
- Sunspot
- Magnetars
- Neutron stars
- Air-breathing propulsion system
- Space Junk
- Graveyard Orbit
- Super cluster of galaxies known as “Saraswati”.
- NASA: Asteroid impact and deflection assessment mission.
- Commercial use of Lithium-Ion battery technology
- Hyperspectral imaging satellite
- Water propulsion system in CUBESAT
- Saturn-cassini Mission
- OSIRIS-Rex passed by earth to reach asteroid Bennu
- Hackathon # Open Gov Data Hack
- Google Lunar X Prize Competition
- NASA-ISRO synthetic aperture radar satellite (NISAR)
- GSAT-17 heaviest communication satellite of ISRO
- Astrosat, Chandra and Hubble Jointly detect massive cosmic explosion
- Scientists create first global map of water on moon
- World’s largest aircraft “Strato launch”
- MOM complete 3 years in orbit
- Solar mission Aditya L-1 in 2019
- Gravitational waves news
- Radio galaxies
- Indigenously developed S-Band Doppler weather radar
- Kelvin waves
- ISRO made satellite based chip system
- TDRS-M NASA
- Neutrino Observatory
- Indian Space Vision-2025
 - ‘NIRBHAY’ sub sonic cruise missile
 - Brahmos
 - INS Koltar
 - INS Kiltan
 - NAG missile
 - Hydrogen bomb
 - Vikram OPV

- Integrated Quarter Master Package
- INS Kalvari
- Prithvi II
- Air Independent Propulsion
- Rukmini

IT & COMMUNICATION

- Different Regulatory Bodies in India for ICT
 - Ministry of Communication and information Technology
 - Initiatives in 12th 5 year plan
 - Major Policy Initiatives National Optical Fibre network
 - Spectrum Management
 - Government initiatives
 - Cyber Law
- Computer Terminology and Fundamental
 - History of Computers
 - Types of Computer
 - Component of Computer system
 - Computer Languages
 - Generation of computers
 - Computer terminologies
 - Supercomputer and its applications
 - Display technologies
 - Cathode ray
 - LCD
 - LED
 - Plasma Monitors
 - OLED
- Mobile Generations and Technology
 - Definition and Impact of ICT on Society
 - Evolution of Telecommunication
 - Media Transmission technology
 - Wireless , Optical Fibres, VSAT SIM IMEI 3G 4 G VoLTE Wi Max
 - Mobile generations
 - Smartphone
 - Important concepts
 - Internet, Types of Network and e- Governance
 - Internet



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- WWW
- IP
- URL
- HTTP
- Computer Security Tools: firewalls, hackers
- Global Internet Governance e
- Internet of things
- Internet Protocol
- VPN
- Networking : Bluetooth , WiFiHotSpot
- National E Governance Plan
- **Recent Developments**
 - Government initiatives
 - Digital India Initiative
 - MeghRaj
 - Code Free for India
 - E-Kranti
 - Bharat Net project
 - Bharat QR
 - Contemporary debates
 - Net Nuetrality
 - Internet of Things
 - Big Data Initiative and Privacy
 - Cyber crime and security
- Spectrum Policy, Broad Band Policy
 - Spectrum Policy in India
 - Spectrum
 - Mobile Spectrum
 - Broadband Policy in India
 - Cloud Computing
 - Big Data
 - Encyption
 - Biometrics
 - Virtual Reality
 - Digital India
 - QR Codes
 - Recent Developments in IT & Telecom
 - Quantum computing
 - Project brainwave

- Sagar Vani System
- Locky Ransomware, Petya, WannaCry
- Hindi word for computer i.e., "SANGANAK"
- India's first technology and innovation support centre (TISC)
- Net neutrality
- National cyber coordination center
- Hortinet
- Digital Transaction Methodologies
- Block chain Technology
- Bitcoins
- Cyber Swachhta Kendra
- Digital Transaction Methodologies
- Bharat Net Project
- Wi-Fi Technology
- Digital Terrestrial Television Transmission System
- Internet of Things

MATERIALS, NANO TECHNOLOGY & ROBOTICS

- Superconductivity Laser, Artificial Intelligence
 - History Classification and Properties of Superconductors
 - Application of Superconductors
 - Types and Applications of LASERS
 - Artificial Intelligence and Application
 - Advantages and Disadvantages of Artificial Intelligence
- Superconductivity Laser, Artificial Intelligence
 - What is Robotics?
 - Robotics Terminologies
 - Laws of Robotics
 - Robotics in India
 - Machine vs Computer vs Robots
 - Parts of a Robot
 - Controller
 - Manipulator
 - End Effector
 - Sensor
 - Classification of Robots
 - Rolling Robots

- Walking Robots
- Autonomous Robots
- Artificial Intelligence
- Advantages and Disadvantages of Robot
- Applications of Robotics
 - Industrial Sector
 - Aerospace
 - Healthcare Delivery
 - Outer Space
 - Exploration
 - Military Robots
 - Disaster Areas
 - Entertainment
 - Agriculture
 - Domestic work
- Nano Technology
 - What is Nanoscience and Nanotechnology?
 - Origination of Nanoscience and Technology
 - Basics of Nanoscience
 - Nanomaterials
 - Applications of nanotechnology
 - Nano medicine
 - Semiconductors and computing
 - Food
 - Textiles
 - Sustainable energy
 - Environment
 - Transport
 - Space
 - Carbon Nanotube
 - Graphene
 - Quantum Dots
 - Nano Bots
 - Agriculture
 - Adverse Health and Environmental Impacts of Nanotechnology
 - Social and Ethical Impacts:
 - Nano-science and Nano-technology in India

DEFENCE

- Defence Technology
 - Organisations
 - Missile system and classification
 - On the basis of type
 - On the basis of launch vehicle
 - On the basis of Range
 - On the basis of propulsion system
 - Ballistic vs Cruise Missile
 - IGMDP Intergrated Guided Missile Development Programme
 - PrithviTrishul Nag Akash AGNI
 - Shaurya Missile
 - ASTRA Missile
 - Dhanush
 - Prahaar
 - Brahmos Missile System
 - Anti-Ballistic Missile System
 - Frigates Destroyers and Aircraft Carriers
 - AWACS
 - Light Combat Aircraft
 - Unmanned Aerial Vehicle
 - Stealth technology
 - Chemical Weapon
 - Biological Weapon
 - Submarines
 - Indian Submarines and Naval Ships
 - Commissioned Submarines
 - Project 75
 - INS Astradharini

NUCLEAR TECHNOLOGY

- Nuclear Energy and Nuclear Fuels
 - Types of nuclear reactions
 - Nuclear Fusion
 - Nuclear Fission
 - Nuclear Fuel – Stage 1 Stage 2 Stage 3

- Nuclear Programme in India
 - N-Power Policy of India
 - Advantages of Nuclear Energy
 - Disadvantages of Nuclear Energy
 - Institutions involved in Nuclear energy Development, AERB
 - Safety standards in Nuclear Power plants
 - India's 3 stage Civil Nuclear Programme
 - Nuclear Reactors in India
 - Kudankulam Project
 - Jaitapur Plant
- Organisation Institutions
 - Department of Atomic Energy
 - BHABHA
- Radioactivity
 - Radiation and Radioactivity
 - Radiation Technologies and Applications
 - Radioactive Waste and Nuclear Waster Management
 - Nuclear & Radiological Disasters

IPR AND OTHER MISCELLANEOUS ISSUES

- IPR Intellectual Property Rights
 - Copyrights
 - Trademarks
 - Patents
 - Industrial Design
 - Trades Secrets
 - IPR and Agriculture

BIOTECHNOLOGY

- Biotechnology in India
 - Department of BT
 - Various Fields of BT
 - R&D
- Genetics and Biotechnology
 - Industrial genetics
 - Genetic engineering

- DNA sequencing
 - Nucleic acid probes
 - Genomics and proteomics
 - Bioprocess/fermentation technology
- Biological fuel generation
 - Global warming and the significance of fossils fuels
 - Biofuels from biomass
 - Bioethanol from biomass
 - Biodiesel
 - Methane
 - Hydrogen
- Environmental Biotechnology
 - Microbial Ecology Environmental Biotechnology
 - Waste water and sewage treatment
 - Landfilling technologies
 - Composting
 - Bioremediation
 - Detect and monitoring of pollutants
 - Microbes and the geological environment
- Plant and Forest biotechnology
 - Plant biotechnology
 - Forest biotechnology
- Animal and insect biotechnology
 - Genetic manipulation and transgenic animals
 - Genetically engineered hormone and vaccines
 - Animal organs for human patients
 - Genetically modified insects
- Food and Beverage Biotechnology
 - Food and beverage fermentations
 - Microorganisms as food, Enzymes and food processing
 - Amino acids, vitamins and sweeteners
 - Organic acids and polysaccharides
 - Public acceptance and safety of new biotechnology foods
 - Biotechnology and medicine
 - Pharmaceuticals and biopharmaceuticals
 - Antibiotics
 - Vaccines and monoclonal antibodies
 - Biopharmaceuticals/therapeutic proteins
 - Pharmacogenetics

- Molecular biology and human disease
 - Diagnostics in developing countries
 - Gene therapy
 - Systems biology and medicine
- Stem cell biotechnology
- Protection of biotechnological inventions
 - Patent protection Trade secrets
 - Plant breeders' rights
- Recent Development in Biotechnology
 - Achievements of Biotechnology indifferent fields
 - Genome sequencing of Ragi done for the first time in the world
 - GM mustard policy
 - DNA as storage device
 - Biomarker
 - Algae based footwear
 - Artificial Womb
 - K. grants gene editing license
 - GM Mosquito
 - DBT launched "Sohum" an innovative newborn hearing screening device
 - Biotech-KISAN scheme
 - India's first biomass to ethanol plant & its commercialization
 - Digital Biopiracy
 - Genetically Modified Mosquito
 - Designer Babies' or Three Parents Babies
 - National Biotechnology Development Strategy 2015-2020

Biodiversity

General Science (Prelims)

BIOLOGY

- **Origin of Life and Cells**
 - Cell Structure
 - Membranes
 - Cell-Cell Interactions
 - Energy and Metabolism
 - Respiration
 - Cell Division
 - Sexual Reproduction
- **Genetics**
 - Inheritance
 - DNA, The Genetic Material
 - Gene Expression
 - Gene Regulation
 - Mutation
 - Recombinant DNA Technology
- **Classification of Living Things**
 - Classification and Domains of Life
 - General Biology/Classification of Living Things/Viruses
 - Prokaryotes
 - Eukaryotes
 - Protista
 - Plants
 - Fungi
 - Animals
- **Evolution of Life**
 - - Evolution of Life
 - Animal Evolution
 - Human Evolution
- **Tissues**
 - - Epithelial tissue
 - Connective tissue
 - Muscle tissue

- **Endocrine System**

- - Hypothalamus
 - Pineal body (epiphysis)
 - Pituitary gland (hypophysis)
 - Thyroid
 - Adrenal glands
 - Reproductive glands

- **Respiratory System**

- - External and Internal Respiration
 - Respiratory system in Plants
 - Respiratory System in Insects
 - Respiratory System in Humans and Animals

- **The Transport System in Organisms**

- - Transport system in a Cell
 - Transport System in Plants
 - Transport System in Animals
 - Blood Vascular System
 - The Lymphatic System

- **Skeletal and Muscular Systems**

- - Bone and Skeleton System (Osteology)
 - Ligaments (Syndesmology)
 - Muscular System (Myology)
 - Vertebrates

- **Reproductive System**

- - Asexual Reproduction in Plants
 - Asexual Reproduction in Animals
 - Sexual Reproduction in Plants
 - Sexual Reproduction in Animals
 - Sexual Reproduction in Humans

- **Excretory System**

- - Excretory products
 - Excretion in plants
 - Excretion in Animals

- Osmoregulation, ADH and formation of Urine in Animals
 - Physiological and Behavioural Adjustments
- **Nutrition**
 - - Classification by Source of Energy and Carbon
 - Plant Nutrition
 - Animal Nutrition
 - Human Diet
 - The Digestive System
 - Photosynthesis
- **Diseases**
 - - Tuberculosis
 - Non-Communicable diseases
 - Diabetes mellitus
- **Economic Zoology**
 - - - Beneficial animals: Corals - Earthworm - Vermiculture
 - Beneficial insects - Prawns - Lobsters - Crabs - Pearl oysters - Fishes - Guano - Aquarium - Vivarium.
 - Harmful animals: Disease causing organisms - Vectors - Poisonous organisms - Fouling organisms - Pests.
- **Recent Development**
 - - - - India has declared free from Bird flu
 - Revised Draft guidelines for stem cell research, 2017
 - Therapy for sepsis
 - Curcumin, A bioactive component of turmeric treats cancer
 - Embryo transfer technology to increase livestock productivity
 - "SOHUM" an indigenously developed newborn hearing screening device
 - Kyasanur forest disease or monkey fever developed
 - India Declared Maternal and Neonatal Tetanus, H5N1 and Yaws Free
 - Mission Indradhanush
 - New TB Drug Regimen

Science And Technology (Mains)

UPSC SYLLABUS

- Science and Technology- developments and their applications and effects in everyday life Achievements of Indians in science & technology; indigenization of technology and developing new technology.
- Awareness in the fields of IT, Space, Computers, robotics, nano-technology, bio-technology and issues relating to intellectual property rights.

INTRODUCTION

- India's Policy in the Field of the Science & Technology
- The Science & Technology Policy Resolution in 1958
- Science & Technology Policy 2013
- Institutional Structure
- New Initiatives Aligned with the National Agenda
- India & World Collaboration in Science Projects

SPACE

- Satellite Communication in India
- INSAT Satellite Applications
- Remote Sensing Applications
- Cryogenic Rockets
- Global Positioning System
- Role of Space in Development
- ISRO as Soft Power
- Issue of Space Race
- Space Activities Bill, 2017
- Outer space treaty

IT, TELECOM & ELECTRONICS

- IT Industry in India
- Applications of Information Technology
- Display Technologies



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- Telecommunication
- Government Initiatives
- Contemporary Debates

DEFENCE

- Missile System and their Classification
- India's Missile System
- India's Ballistic Missile Defence System
- UAVs in India
- Stealth Technology ,Chemical Weapons , Biological Weapons

NANO-SCIENCE & NANO-TECHNOLOGY

- Nanoscience Nanotechnology and Nanomaterials
- Applications of Nanotechnology
- Health & Environmental Impacts of Nanotechnology
- Social & Ethical Impacts
- Nano-Science& Nanotechnology in India

ROBOTICS

- Robotics & Artificial Intelligence
- Applications of Robotics
- Robotics and Issues of Unemployment

NUCLEAR ENERGY

- Nuclear-Power Policy of India
- Non-energy Applications of Nuclear Energy
- Impact of Radiation, Issue of RadioactiveWaste
- Institutions involved in Nuclear Energy Development
- Nuclear & Radiological Disasters

BIOTECHNOLOGY

- Application of Biotechnology

- Biotechnology Projects
- Issue of Bio-Piracy
- Bioinformatics
- Biotechnology and IPR Issue
- Ethical Dimension In Biotechnology

RENEWABLE ENERGY

- Ocean Thermal Energy Conversion (OTEC)
- Concept of Green Building
- Tidal , Wave , Geothermal Energy , Fuel Cells

ACHIEVEMENTS OF INDIANS IN SCIENCE & TECHNOLOGY

- Scientists of Ancient India
- Science and Scientists of Medieval India
- Scientists of Modern India
- Policies& Reports related to Science
 - Technology Vision Document 2035
 - National Biotechnology Development Strategy 2015-2020
 - National Intellectual Property Rights Policy
 - Policy on Synthetic Biology
 - Law Commission Report on Human DNA Profiling

Contemporary Issues: Science & Technology (Mains)

SPACE

- OUTER SPACE TREATY
- NEUTRINO OBSERVATORY
- SOLAR MISSION- ADITYA
- Chandrayaan-2 Mission
- GRAVITATIONAL WAVES
- IMPORTANCE OF NAVIGATION SYSTEM
- Reusable Launch Vehicle
- About SN Bose



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- Stephen Hawking
- Space Activities Bill, 2017
- ISRO AS SOFT POWER
- ISRO'S ROLE IN SOCIO-ECONOMIC DEVELOPMENT
- Space Debris
- GAGANYAAN
- 20 years of International Space Station

BIOTECHNOLOGY & HEALTH

- Tuberculosis
- Mother-to-Child Transmission of HIV
- Nipah Virus Infection
- Generic Drugs in India
- Stent Implants
- INTELLECTUAL PROPERTY RIGHTS: ISSUES & CONCERNS
- Misuse of Secondary Patent Methodology
- Digital Biopiracy
- Clinical Applications of whole Genome Sequencing
- Three-Parent Babies Permitted in UK
- Mass Embryo Transfer
- Issues Related to Gm Food
- Importance of Genetic Testing
- Health Geo-Mapping Project
- Digital Health Technology Eco-System
- Ethical Dimension In Biotechnology
- Law Commission Report on Human DNA Profiling
- Law against Genetic Discrimination
- Genome Editing: What, Why and Way Forward

DEFENCE

- India's Missile System
- Brahmos and its Significance
- India's Ballistic Missile Defence System
- Indian Submarines and Naval Ships
- Light Combat Aircraft
- UAVs in India

- Chemical Weapons
- Biological Weapons

POLICIES RELATED TO SCIENCE

- Sti Policy 2013 of India: Analysis
- The Paradox of Innovation
- Analysis of INSPIRE Scheme
- National Biotechnology Development Strategy 2015- 2020
- Organ Donation Rules in India
- Policy on Synthetic Biology
- The Dna Technology (Use and Application) Regulation Bill, 2018
- Maharashtra's Public Cloud Policy
- National Policy on Electronics 2019
- Roadmap for Drones
- National Wind-Solar Hybrid Policy
- Draft Rules for E-Pharmacies
- National Digital Communications Policy
- Net Neutrality

IT & TELECOM

- Internet Of Things
- Big Data Initiative
- Supercomputer and its Applications
- Li-Fi Technology and its Application
- Use of it in Financial Inclusion
- Credit/Debit Card Crimes
- Bharatnet Project
- Wanna Cry Malware
- Concept of Cyber-Physical Systems
- Esign Electronic Signature Service: Significance & Applications
- Digital India: Achievements
- Adoption of Blockchain Technology to Stop Bank Frauds
- Artificial Intelligence and Society
- Two Authentication Procedure
- Facial Authentication Working
- Issue of Internet Governance

- Quantum computing
- National supercomputing mission
- Data Protection-B N srikrishna committee
- Data Localisation and Related Issues
- National Digital Literacy Mission and Digital NE vision
- National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS)
- Bullet Train

INITIATIVES IN THE FIELD OF SCIENCE & TECHNOLOGY

- Technology and Food Security
- BOOSTING Horticulture through Remote Sensing
- Hyperloop Transportation Technology
- Cloud Seeding Experiment In Maharashtra
- Nano-Technology Medicines
- Hydrogen Bomb
- Ear Tagging In Cattle
- e-Cigarette
- Kudankulam Nuclear Power Plant
- Geo-Tagging The Assets In Mgnrega
- Robot Tax and its Implications
- India & World Collaboration in Science Projects

INITIATIVES IN THE FIELD OF SCIENCE & TECHNOLOGY

- Mother-to-Child Transmission of HIV
- Nipah Virus Infection
- Avian Influenza or Bird Flu
- Bovine TB
- Encephalitis
- Kyasanoor Forest Disease (Monkey Fever)
- Hospital Acquired Infection
- Rotavirus
- Middle East Respiratory Syndrome Virus
- Swine Flu
- Chikanguniya
- Tuberculosis

Environment

Environment (Prelims)

ENVIRONMENTAL ECOLOGY

- Origin of Life forms
 - Origin of Life forms
 - Life on earth
- Basic Concepts of Ecology
 - Types of Ecology
 - Ecological Hierarchy
 - Scope of Ecology
 - Habitat & Ecological Niche
 - Deep vs Shallow Ecology
 - Ecological Principles
 - Ecological Community
 - Structure and Characteristics of a Community
 - Stratification
 - Ecotone
 - Ecological Dominance
 - Seasonal and Diurnal Fluctuation
 - Periodicity
 - Turnover
 - Interdependence
 - Ecological Succession
 - Types and Process of Succession
 - Climax Community
 - Range of Tolerance , Maximum Range
 - Difference between Ecology , Environment and Ecosystem
- Ecosystem functions
 - Ecosystem Definitions
 - Functions and Properties of Ecosystem
 - The Structure/Components of Ecosystem
 - Abiotic Components
 - Biotic Components
 - Ecosystem Dynamics

- Flow of Energy in Ecosystem
 - Trophic Levels
 - Food Chain
 - Types & Significance of Food Chain
 - Food Web
 - Models for Energy Flow
 - Ecological Productivity
 - Ecological Pyramid
- Biomagnifications
- Biological Control
- Population Ecology
 - Types of species
 - Population Ecology
 - Population Growth Models
 - Methodology of Tiger census
 - Methodology of Lion Census
- Adaptation of Species and Interactions
 - Adaptation
 - Examples of adaptation in plants
 - Examples of Adaptations in animals
 - Homeostasis
 - Interaction between Species
 - Ecotone
 - Endemic Species
 - Keystone Species
 - Indicator Species
 - Invasive Species
 - Allopatric and Sympatric Speciation
- Terrestrial Ecosystems
 - Terrestrial ecosystem
 - Forest Ecosystem in India
 - Grasslands
 - Tundra
 - Deserts
 - Mountains
- Aquatic Ecosystem
 - Aquatic ecosystem
 - Factors affecting the productivity of aquatic ecosystems
 - Fresh water ecosystem

- Marine ecosystem
- Marine Organisms
- Plankton
- Phytoplankton
- Factors Affecting Phytoplankton Biodiversity
 - Importance of phytoplankton
 - Zooplankton
 - Sea-grass
 - Seaweeds
- Human Modified Ecosystems
- Nutrient Cycling
 - Concept of Biogeochemical Cycle
 - Parts of a Biogeochemical Cycle
 - Types of Biogeochemical Cycle
 - Carbon Cycle
 - Steps in the carbon cycle
 - Carbon cycle: Long term and Short term
 - Carbon act as Climate Buffer
 - Human Impact on the Carbon Cycle
 - Effects of high concentration of Greenhouse Gases
 - Hydrological Cycle
 - Different Steps of the Hydrologic Cycle
 - Storage
 - Nitrogen Cycle
 - Human Impact on the Nitrogen Cycle
 - Oxygen Cycle
 - Sulphur Cycle
 - Human Impact on the Sulphur Cycle
 - **Phosphorus Cycle**
 - Human Influence on Phosphorus Cycle

BIODIVERSITY

- Basics of Biodiversity
 - Biodiversity
 - Types of biodiversity
 - Patterns of biodiversity
 - Bio-geographical classification of World
 - Bio-geographical classification of India
 - Functions of biodiversity
 - Hotspots of biodiversity
 - Bio informatics
 - Eco Regions
 - Role of Traditional Knowledge in Biodiversity
 - Biopiracy
- Animal and Plant Diversity
 - Plant and Animal Kingdom
 - Marine Mammals
 - Egg laying Mammals
 - Marsupials
 - Threats to biodiversity
 - Causes of Biodiversity losses
 - Effects of Loss of Bio-Diversity
 - Extinction of species
 - Mass Extinction
 - IUCN Red List and Classification Scheme
 - Biodiversity Conservation
 - Scheduled Animals in the Wildlife Protection Act
 - In-situ methods of Conservation
 - Protected Area Categories
 - Forms of Protected Areas
 - Biosphere reserves
 - Sacred forests and sacred lakes
 - World Heritage sites
 - Geo-heritage sites
 - Advantages of In-situ conservation
 - Disadvantages of In-situ conservation
 - Ex-situ methods of Conservation
 - Advantages of ex-situ preservation:

- Disadvantages of Ex-situ conservation
 - Zoological Parks
 - Botanical Gardens
 - Seed banks
- National Parks
- Wildlife Sanctuaries
- Biosphere Reserves
- Species based conservation programmes
 - Project Tiger
 - Project Elephant
 - Project Snow Leopard
 - Vulture conservation project
 - Crocodile conservation project
 - Ganges dolphin project
 - Indian Rhino Vision
 - Other projects
 - India adopts SAWEN
- Important Coastal and marine Biodiversity Areas
- Global initiative
 - State of Protected Areas in the World
 - MAB – Man and Biosphere Programme
 - World network of Biosphere Reserves
 - Biodiversity Hotspots
 - CBD – Convention of Biological Diversity
 - Cartagena Protocol
 - Nagoya Protocol
 - Aichi Biodiversity Diversity
- Estuaries
 - What are estuaries?
 - Types of Estuaries
 - Importance of estuaries
 - Threats to estuaries
 - Major Estuaries in Indian coastal states
 - Monitoring and Prediction of Health of Estuarine and Coastal Waters
 - Difference between Lagoon and Estuary
 - Estuary ecosystem: Adaptations made in organisms
 - Conservation of Estuaries
- Mangroves
 - What are mangroves?

- Mangroves in India
- Importance of Mangroves
- Mangroves under threats
- Legal and Regulatory Approaches for Protection
- Community based mangrove regeneration
- Coral Reef
 - About coral reefs
 - What do corals feed on?
 - Geographical Conditions
 - Types Of Coral Reefs
 - Uses of coral reefs
 - Concept of Bio-rock reefs
 - Threats to Coral reefs
 - Conservation of coral reef
- Wetlands
 - What are wetlands?
 - Types of wetlands
 - Wetlands in India
 - Importance of wetlands
 - Threats to wetland ecosystems
 - Conservation of Wetlands
 - About Ramsar Convention ‘
 - About Asian Water bird Census

RESOURCE DEGRADATION & MANAGEMENT

- Land Resource
 - Causes of land degradation
 - Impact of land degradation
 - Desertification
 - Sustainable Land Management
- Forest Resource
 - Definition of forests by FSI
 - Types of Forest Cover
 - Forest Survey of India (FSI report 2017)
 - Types of Forests In India
 - Deforestation
 - Causes of Deforestation

- Consequences of Deforestation on the Wildlife of India
- Strategies for Reducing Deforestation
- Government Programmes for Conservation of Forests
- Soil Resource
 - Soil Characteristics and Soil formation process
 - Factors Responsible for Soil Formation
 - Soil Forming Processes
 - Soil Profiles and Horizons
 - Type of Soils
 - Soils in India
 - Soils in World
 - Soil Erosion
 - Problems due to excessive irrigation
 - Soil Conservation
 - Soil health card scheme
 - Organic Farming
- Water Pollution
 - Surface Water Resource
 - Ground Water Resources
 - Sources of Water Pollution
 - Measurement of Water pollution
 - Causes of Water Pollution
 - Harmful effects of water pollution
 - Other terms associated with water pollution
 - Algal Bloom
 - Eutrophication
 - Arsenic contamination of water
 - Mercury Pollution
 - Oxygen Stratification
 - Energy Resources
 - Ocean Thermal Energy Conversion
 - Tidal Energy
 - Wave energy
 - Fuel Cell
 - Microbial fuel cell
 - Biofuels
 - Biogas
 - Geothermal Energy
 - Solar Energy

- New Energy Resources
- Renewable Energy and Development
- Petroleum Conservation Research Association
- Atomic Energy Bill
- Civil Liability for Nuclear Damage Bill
- National Electric Mobility Mission Plan
- National Policy on Biofuels
- Three Stage Nuclear Power Programme
- Solar Renewable purchase Obligation
- Petroleum Planning & Analysis Cell
- New Energy Policy
- Energy Organisation

ENVIRONMENTAL POLLUTION

- Basics of Pollution
 - Sources of pollution
 - Effect of Modern Agriculture on Environment
 - Effect of Housing on Environment
 - Effect of Power Generation on Environment
 - Effect of River Valley Projects (Water Resource Projects) on Environment
 - Effect of Mining on Environment
 - Effect of Transportation Activities on Environment
 - Effect of Tourism on Environment
 - Classification of pollutants
 - Pollution Indicator species
- Mining and Pollution
 - Mining and Environment
 - Sensitivity of Select Ecosystems to Mining
 - Impact of Mining
 - Indirect Impact of Mining
 - International Laws on Mining
 - Main Act or Statue to regulate the impact of
 - Indian Mining Sector
 - Sustainable Mining
- Air Pollution
 - Causes of air pollution
 - Harmful Effects of air pollution
 - Top-ten gases in air pollution

- Control of Air Pollution
- Concepts related to Air pollution
 - Smog and its impact
 - Ozone depletion
 - Acid rain
 - Respirable Suspended Particulate Matter (RSPM)
 - Fly Ash
 - Bharat stage Norm
 - National Air Quality Index
 - Comprehensive Environmental Pollution Index
- Marine Pollution
 - Sources of marine pollution
 - Effects of marine pollution
 - Concept of dead zone
 - Concept of Ocean acidification
 - Oil spill
 - Trash and Other Debris in ocean
 - Microplastics and its impact
 - Coastal Regulation Zone Notification, 2011
- Noise Pollution
 - Causes of Noise pollution
 - Noise Levels
 - Effects of Noise Pollution on human health
 - Corrective actions
- Biological Pollution
 - Sources of biological pollution
 - Harmful effects from biological contaminants
 - Corrective actions
- Radioactive Pollution
 - Sources of Radioactive Pollution
 - Harmful effects of Radioactive Pollution
 - Corrective actions
- Thermal Pollution
 - Causes of Thermal Pollution
 - Effect of Thermal Pollution
 - Control of Thermal Pollution
- Waste Management
 - Solid waste management
 - Types of Solid Waste

- What is solid waste management?
- Issues in solid waste management in India
- Waste Management Practices
- Technologies for the Generation of Energy from Waste
- Policy on Promotion of City Compost
- Salient features of SWM Rules, 2016
- E-Waste Management
 - Pollutants and their health impacts
 - E-waste status in India
 - Importance of the E-waste management
 - Steps taken for combating mounting E-Waste
 - E-waste (Management & Handling) Rules, 2016
- Biomedical Waste Management
 - Hazards associated with waste management
 - Bio-Medical Waste Management Rules, 2016
- Hazardous waste and its Characteristics
- Hazardous and Other Wastes (Management & Trans-boundary Movement) Rules, 2016
- Treatments Methods in Waste Management
 - Methods for sewage treatment
 - Treatments Methods for waste management
- Hazardous waste treatment

CLIMATE CHANGE

● Climate Change Basics

- What is Climate Change?
- What is Global warming?
- Factors Affecting Climate Change
- Causes of climate change
 - Extra-Terrestrial Sources of Climate Change
 - Terrestrial Sources of Climate Change
 - Anthropogenic sources of Climate Change
- Urbanization and climate change
 - 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
 - What is greenhouse effect?
- Non green House Gases and Aerosols
- Radioactive forcing and global warming
- Ecological footprint
- Carbon footprint
- Global Warming Potential (GWP)
- **Climate Change Impact**
 - Impacts of the Climate Change
 - Acid Rain
 - El Nino
 - La Nina
 - Ozone Depletion
 - Ocean Acidification
 - Global Warming & Health
 - Health impacts of global warming
 - Mosquito-borne diseases
 - Ozone depletion and human health
 - Climate change mitigation
 - Carbon Sequestration
 - Carbon Sink
 - Carbon Credit
 - Carbon Tax

ENVIRONMENTAL GOVERNANCE

- Acts and Policies
 - Constitutional Provisions related to environment
 - Wildlife Protection Act 1972
 - Environmental Protection Act
 - National Forest Policy
 - Biological Diversity Act 2002
 - Schedule Tribes and Other Forest
 - Dwellers Act 2006
 - Coastal Regulation Zone
 - Wetland Rules 2010
 - National Green Tribunal
 - Ozone Depleting Substance Rules
- Environment Impact Assessment (EIA)
 - What is EIA?
 - Brief History of EIA in India
 - EIA Process in India
 - The 8 steps of the EIA process
 - Environmental Appraisal Process
 - Drawback in EIA Process
 - Recommendations for Improvement
 - Environment Management
 - EIA in India – Sectorial Analysis
 - Mining Sector
 - Agricultural Sector
 - Industrial Sector
 - International Environmental Governance
 - UNEP
 - UNDP
 - Centre for Biological Diversity
 - WWF for Nature
 - IUCN - Red List
 - Birdlife International
 - International Conventions / Protocols & their Objectives
 - Sustainable Development Goals
 - Various Indices relate to Environment
 - Climate Change Governance
 - United Nations Conference on the Human Environment (Stockholm Conference)

- United Nations Environment Programme (UNEP)
 - Montreal Protocol and Kigali Agreement
 - The Earth Summit: United Nations Conference on Environment and Development (UNCED), Rio de Janeiro, 1992
 - Global Environment Facility (GEF)
 - Rio Declaration: 1992
 - Agenda 21:1992
 - Commission on Sustainable Development (CSD)
 - United Nations Convention to Combat Desertification (UNCCD)
 - United Nations Framework Convention on Climate Change (UNFCCC): 1992
- Global Climate Finance Architecture
- India and Climate Change
 - India's Position with regards to policy on Climate Change
 - Observed Climate and Weather Changes in India
 - NAPCC
 - Indian Climate Change Assessment
 - Indian Policy Structure Relevant to GHG Emissions
- Environment related Institutions in India
 - Pollution Control Boards
 - National Green Tribunal
 - National Board for Wildlife
 - Animal Welfare Board
 - Central Zoo Authority
 - National Biodiversity Authority
- Environmental schemes in India
 - National Wildlife Action Plan
 - CAMPA
 - Joint Forest Management
 - Social Forestry
 - National Bamboo Mission
 - National Action Plan on Climate Change
 - National Solar Mission
 - Ganga Rejuvenation Plan
 - Benefits of River Ganga
 - Facts about Ganga River Pollution and its impacts
 - Ecomark Scheme
 - Swachh Bharat Mission
 - Swachh Bharat Kosh
 - Grants in Aid Scheme

- National Afforestation Program
- National River Conservation Plan
- National Mission for Clean Ganga
- National Air Quality Index (AQI)
- National Action Programme to Combat Desertification
- Pradhan Mantri Sauchalay Yojana
- UJALA Scheme
- Bharat Stage Norms
- Corporate Social Responsibility and Environment Protection
- APPENDIX
 - National Parks
 - Tiger Reserves of India
 - Elephant Reserves in India
 - Mike Sites in India
 - Biosphere Reserves
 - Biosphere Reserves in UNESCO's Map List
 - Ramsar Wetland Sites
 - Natural World Heritage Sites
 - List of Sacred Groves
 - Mangrove Sites in India
 - Pollution
 - Key activities and Likely Associate Air Pollutants
 - Respiratory Irritants and Toxic Chemicals
 - Recent Developments
 - Mobile Tower Radiation
 - Shrinking of Cauvery Delta
 - Use of Garbage to Construct Road
 - Moss as Pollution Monitor
 - Graded Plan for Air Pollution
 - Air Quality Index
 - Polluter Pay Principle
 - Pesticide Poisoning
 - Aerosols
 - Anti-Smog guns
 - Particulate matter
 - Nalanda Model of Water Conservation
 - Wetland Rules, 2017
 - Permaculture and Monoculture
 - Sand Mining Guidelines

- Coastal Erosion (Parali Island)
- Bottom Trawling to Deep Sea Fishing
- 'Wadi' Model
- Re-greening of Village Commons Project
- Warsaw International Mechanism for Loss and Damage
- Namami Ganga Programme
- River Ganga (Rejuvenation, Protection and Management) Authorities Order, 2016
- Smart Ganga City Scheme
- Ganga Task Force
- Ganga, Yamuna termed 'living persons'
- National Capacity Building Project for Waste Management
- NGT Bans Plastic
- Mission Innovation
- Tribunal – Dumping Waste in Ganga
- Ease in Norms for Sewage Plants
- Organic Waste to Make Green Fuel
- New Technologies for Waste Management
- Melting of Antarctic Iceberg
- Melting of Gangotri Glacier
- Carbon Capture
- Black Carbon
- 30th Montreal Protocol and World Ozone Day
- El-Nino Caused Record CO₂ Spike
- Glaciers in Asia to sink
- Tropics emit more Carbon
- Climate change impact on Natural Heritage Sites - Impact on Sunderbans
- Marine Diversity in Antarctica under threat
- Carbon Credit
- 2nd Kyoto Protocol
- Green Metro System
- Negative Emissions
- Geo-engineering Climate Change
- Sequestering CO₂
- Bonn Challenge
- COP-23
- Air Quality Index likely to be added to 'playing condition'
- HFCs - India to eliminate use by 2030
- Kigali agreement

- Carbon Neutrality Concept
- Marrakesh Climate Change Conference
- International Solar Alliance (ISA)
- Kyoto Protocol (2nd Commitment 2013-20)
- Climate Change Performance Index

Environment (Mains)

UPSC SYLLABUS

- Conservation, environmental pollution and degradation, environmental impact assessment.
- Disaster and disaster management.

ENVIRONMENT AND ECOLOGY: BASIC UNDERSTANDING

- Introduction
- Categories of Environment
- Features of Environment
- Components of Environment
- Ecology

ECOSYSTEM AND ITS DYNAMICS

- Ecosystem Definitions
- Properties of Ecosystem
- Components of Ecosystem
 - Abiotic Factors
 - Biotic Factors
- Ecosystem Dynamics

BIOGEOCHEMICAL CYCLES

- Gaseous Cycle
 - Carbon Cycle
- Human Impact on the Carbon Cycle
- Effects of High Concentration of Greenhouse Gases



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- Hydrological Cycle
 - Nitrogen Cycle
 - Human Impact on the Nitrogen Cycle
 - Oxygen Cycle
- Sedimentary Cycle
 - Sulphur Cycle
- Human Impact on the Sulphur Cycle
 - Phosphorus Cycle

TYPES OF ECOSYSTEMS

- Terrestrial Ecosystem
- Aquatic Ecosystem
- Changes in Ecosystem
- Ecosystem Conservation
- Ecology vs. Economy

POPULATION ECOLOGY

- Population Characteristics
- Population Growth Models
- Species
- Carrying Capacity of Earth

BIOSPHERE

- Extent of the Biosphere
- Working of the Biosphere
- Importance of the Biosphere
- Alpha, Beta, Gamma Diversity
- Biomes
- Global Biomes
 - Major Biomes of the World
 - WWF Classification of Biomes
 - Terrestrial Biomes
 - Aquatic Biomes
- Indian Biomes

BIODIVERSITY

- Types of Biodiversity
- Value of the Biodiversity
- Threats to Biodiversity
 - Causes of Biodiversity losses ('The Evil Quartet')
 - Invasive species
 - Effects of Loss of Bio-Diversity
- Extinction of Species
- Types - Natural, Mass, Anthropogenic
- Causes of Extinction
- Consequences of Extinction of Species

BIODIVERSITY CONSERVATION

- Conservation Strategies
- Conservation Tools
- IUCN
- IUCN Red List
- Ecologically Sensitive Area (ESAs)
- In-situ methods of conservation of biodiversity
 - Advantages of In-situ Conservation
 - Disadvantages of In-situ conservation
- Ex-situ Methods of Conservation of Biodiversity

POLLUTION & DEGRADATION

- Land Degradation
 - Causes and Impact of Land Degradation
 - Desertification
 - Sustainable Land Management
 - Soil Erosion
 - Problems due to Excessive Irrigation
 - Soil Conservation
- Air Pollution
 - Causes of Air Pollution
 - Harmful Effects of Common Air Pollutants

- Control of Air Pollution
- Marine Pollution
 - Effects of Marine Pollution
 - Coastal Regulation Zone Notification, 2011
- Mining & Pollution
 - Effects of Mining on Environment
 - Concept of Sustainable Mining
 - Acts to regulate the adverse effects of Mining Activities
- Other Pollution
 - Effects of Noise Pollution on Human Health
 - Harmful Effects from Biological Contaminants
 - Harmful Effects of Radioactive Pollution
 - Nuclear Accidents
- Water Degradation
 - Measurement of Water Pollution
 - Harmful Effects of Water Pollution
 - Delhi Pollution

WASTE MANAGEMENT

- Solid Waste Management
 - Salient features of SWM Rules, 2016
- e-waste Management
 - Pollutants and their Health Impacts
 - Importance of the E-Waste Management
 - E-waste (Management & Handling) Rules, 2016
- Biomedical Waste
 - Hazards Associated with Waste Management
 - Bio-Medical Waste Management Rules, 2016
- Hazardous Waste
 - Hazardous Waste Treatment
 - Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016

CLIMATE CHANGE

- Factors Affecting Climate Change
- Impact of climate change & its mitigation
- Climate Change Management

- Conventions
- International Organisations

ENVIRONMENTAL IMPACT ASSESSMENT SUSTAINABLE PRACTICES

- Impact of Agriculture on Environment
 - Sustainable Agriculture
- Sustainable Agriculture
 - Hi-tech Farming Methods
 - Rain Water Harvesting
 - Green Buildings and their Rating System in India
- Eco-tourism - Advantages & Disadvantages of Eco-tourism

Contemporary Issues: Environment (Mains)

WILDLIFE

- Man-Animal Conflicts in India
- Poaching activities in India
- Development leads to tiger extinction
- Elephant Conservation
- International treaties for wildlife conservation Use of drones for wildlife conservation
- Urban Land Acting as Death Traps for Birds
- Eco-Bridges and Biodiversity Management
- Sunderbans at risk due to Climate Change
- Critical Wildlife Habitats
- Declining Population of Pollinators
- International treaties for Wildlife Conservation

COMBATING POLLUTION

- Indoor Air Pollution and its impact
- Impact of Particulate Matter
- Smog and its impact
- Aerosol shrinking India's Monsoon
- Stubble Burning

- Mobile radiation Impact on Health
- Heavy water Pollution
- Plastic Pollution
- Light Immersion Pollution
- Idol Pollution
- Oil Spill
- Garbage Dumping and its Environment
- E-waste Management Rules 2016
- Groundwater contamination (Arsenic, Uranium)
- Bharat Stage Norm
- What is Polluters Pay Model?
- LANCET Study REPORT: Most Pollution linked deaths occur in India
- Beach (Coastal) Pollution
- Nitrogen Pollution
- Hazardous Waste (Management & Transboundary Movement) Rules, 2016

CLIMATE CHANGE

- Conference of Parties (COP-24) at Katowice
- Marrakech Climate Change Conference
- Paris Agreement
- US moved out of Paris agreement
- Kigali Agreement
- Kyoto Protocol (2nd Commitment)
- IPCC Report 2018
- International Solar Alliance
- Concept of Green Bond
- Green Climate Fund
- Carbon Tax Feasibility in India
- Concept of Green Building
- Concept of Carbon Credit
- Climate Change and Cities
- Climate change and its impact on Health
- Climate Change and Agriculture
- Climate Change and sea level Rise
- Ocean Warming
- Melting of Gangotri Glacier
- Programmes and Policies Initiated for Mitigating Climate Change

- International Collaboration for Mitigating Climate Change
- Ethical issue involved in climate change
- Third Pole and Climate Change
- UNCCD 2018-2030 Strategic Framework
- Regulatory Indicators for Sustainable Energy (Rise) 2018 – Wb
- Accounting Methods of Climate Fund Questioned
- Tackling Climate Change from a Security Perspective
- Effects of Global Warming on El Nino in The 21st Century
- India to Expand Polar Research to Arctic
- Bengal Tigers may not Survive Climate Change
- Scientists Mull Stratospheric Barrier to Curb Global Warming

RENEWABLE ENERGY

- Biogas
- National Solar Mission
- Status of Hydro Power energy in India
- Alternative fuels in India
- Draft Energy Policy
- National Energy Storage Mission
- Indian Renewable Energy Development Agency
- National Wind-solar Hybrid Policy
- Photo-voltaic industry and CPSU scheme

INITIATIVES FOR ENVIRONMENTAL CONSERVATION

- Compensatory Afforestation Fund Act
- Draft National Wildlife Action Plan
- Wetland Management Rules, 2017
- Initiatives to enhance green cover
- Policy on Promotion of City Compost
- Ancient Bawadis and Water Management
- Living status to Rivers
- Ganga River Pollution
- Environment Impact Assessment
- Environmental Compliance and Enforcement in India
- Public Participation for Environmental conservation
- Western Ghats biodiversity conservation

- The 25 Year Environment Plan
- India's National Redd+ Strategy
- EnviStats-India 2019
- Indian Forest Act amendment
- Sustainable India Finance Facility (SIFF)
- Sustainable Development in Indian Himalayan Region
- Global Carbon Project (GCP)
- Naturalized species
- Resource Efficiency Cell
- India Cooling Action Plan (ICAP), Global Cooling Coalition
- Island protection zone (IPZ) 2019 for Andaman and Nicobar
- Plan to save Himalayan springs
- Environmental Institutions
- Pollution Control Board: Analysis
- National Green Tribunal: Analysis
- Forest Survey of India and India State of Forest Report, 2017
- Genetic Engineering Appraisal Committee
- Traditional Knowledge Digital Library

MISCELLANEOUS ISSUES

- Impacts of Dam and fishing
- Issue of Land Degradation
- Sand Mining
- Algal bloom Issue
- Melting of Antarctica and its impact
- River linking project and its impact
- Bottom Trawling to Deep Sea fishing
- Mass Coral Bleaching – Threats to coral reefs
- Forest Fires

Internal Security

Internal Security Challenges In India (Mains)

UPSC SYLLABUS

- Science and Technology- developments and Linkages between development and spread of extremism.
- Role of external state and non-state actors in creating challenges to internal security.
- Challenges to internal security through communication networks, role of media and social networking sites in internal security challenges, basics of cyber security; money-laundering and its prevention.
- Security challenges and their management in border areas; linkages of organized crime with terrorism. Various Security forces and agencies and their mandate.

INTERNAL SECURITY CHALLENGES

- Social Diversity as Issues of Security Threat
- Challenges from within India
- Neighbors as Issue of Security Threat
 - Pakistan
 - China
 - Myanmar
 - Bangladesh
 - Bhutan
 - Nepal
 - Sri Lanka
- Non-State Actors as Issue of Security Threat
- Global Indices and Measurement of Vulnerability of a State towards such Non-State Actors
- Law and Order vs. Internal Security

TERRORISM THREAT TO INDIA

- Changing face of Terrorism
- Terror Threats Faced by India
- Broader Framework to Deal with Terrorism

ORGANIZED CRIME

- Types of Organized Crime
- Problems in controlling organized crimes
- Combating organized crimes
- Linkage of Terrorism and Organized Crime in India

LINKAGE BETWEEN DEVELOPMENT AND SPREAD OF EXTREMISM

- What is Naxalism
- What is the History of Naxal Movement
- Why naxalism is a biggest threat to internal security?

INSURGENCY IN NORTH-EAST

- Introduction
- Issues & Conflicts
- Assam Insurgency

SECURITY CHALLENGES IN BORDER AREAS

- Challenges to Border Management
- Issues Faced in Border Management
- Community Participation for Border Management

BASICS OF CYBER SECURITY

- Basic Definition
- Types of Cyber Crimes
- Impact and Steps needed
- Recent Incident: Ransomware
- National Cyber Security Policy of India 2013



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CYBER WARFARE

- Factors Contributing/Aggravating Rise of Cyber Attack
- Recent Initiatives for Tackling Cyber Warfare
- Way Ahead
- Chinas role in cyber warfare
- Different spywares

SOCIAL MEDIA AND INTERNAL SECURITY THREAT

- Regulation of Social Media in India for Internal Security
- Challenges in Monitoring Social Media

MONEY LAUNDERING

- Meaning of Money Laundering
- Harmful Effects of Money Laundering
- Steps taken by the Government

BLACK MONEY IN INDIA

- Parallel Economy in India
- Measures taken to curb Black Money?
- Demonetization for curbing black money
- Impact of demonetization on black money
- Criticisms

SECURITY FORCES AND THEIR MANDATE

- Police Reforms in India
- Organizational Structure
- Duties and Responsibilities of the Police
- Centre's Role in Policing
- Traditional Security Challenges
- Non-Traditional Security Challenges (NTS)
- Recommendations for Police Reforms
- Police we Want in 21st Century

- Prison Reforms

VARIOUS SECURITY FORCES AND THEIR MANDATE

- Assam Rifles
- Border Security Force (BSF)
- Indo-Tibetan Border Police
- Central Industrial Security Force (CISF)
- Central Reserve Police Force
- National Security Guard
- Issues with Paramilitary Forces

ROLE OF ARMY IN INTERNAL SECURITY

- Strategic Perspective: Has role of Military become more relevant today?
- National Context
- The Indian Army's Response
 - Structural Adaptation
 - Doctrinal Development
 - Leadership Adaptation
 - Long-term Perspective

GOVERNANCE ISSUES RELATED TO INTERNAL SECURITY

- Threats, Challenges and Vulnerabilities in 21st Century
- Introduction
- China: The Long-term Challenge
- Managing the China-Pakistan Collusion
- Nuclear, Biological and Chemical Threat
- Aerospace Threats
- Maritime Security
- Natural Resources
- Conflict over Water
- Energy Security
- Global Warming
- Indian Diaspora
- Economic Warfare



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- Role of foreign elements in disturbing internal security

IMPACT OF GOVERNANCE AND JUSTICE DELIVERY SYSTEM ON INTERNAL SECURITY

- Importance of Good Governance in Internal Security
- Reforms Needed
- Improving E-governance platforms

NATIONAL SECURITY MECHANISM

- Improving Policing and Intelligence
- Resolving Centre-State Issues in Managing Internal Security

ISSUES IN INTELLIGENCE SERVICES

- Response Mechanism in India
- What are the Major INTELLIGENCE Challenges?
- Steps to tackle the flaws
- What are the probable measures to improve Intelligence Services in India?
- How to Create these Capabilities?
- Recent terrorist attacks and role of intelligence in that context

STRATEGY FOR COASTAL AND OFFSHORE SECURITY

- Different Facets of Maritime Security
- Different Reporting Mechanism for Handling Security
- Importance of Coastal Community Participation

MAKE IN INDIA IN DEFENCE

- Present Scenario
- Make in India in Defense
- Government Policy
- Strategy for Indigenization
 - Skill Development
- Technology acquisition

Contemporary Issues: Internal Security Challenges In India (Mains)

MILITARY RELATED POLICIES IN INDIA

- Joint Doctrine Indian Armed Forces - 2017
- Doctrine of Hot Pursuit
- Military Cold Start Doctrine
- India's Military Readiness
- Women into Military Police
- Anti-Hijacking Act, 2016: An Analysis

DEFENSE PROCUREMENT

- Working Analysis of Defence PSU
- DRDO (Defence Research & Development Organization)
- Make in India in Defense
- CAG Report on Ammunitions Management System
- Strategic Partnership Policy to Boost Defense Manufacturing
- China increasing Defence Budget and India's decreasing (implications)

ISSUES RELATED TO SECURITY FORCES

- Central Armed Police Forces
- Indian Police Structure
- Police Modernization Scheme
- Police Reform with Respect to Cyber Security
- Police Surveillance in Age of Big Data
- Andaman Sea Region: India Eyes for Military Expansion
- Role of Indian Navy in Indian Ocean
- Draft Amendments to National Investigation Agency Act-2008 Released
- One Rank One Pension
- Non Lethal Weapons to Control Crowd and Laws Related to it
- V.S.N. Prasad Report on alternatives to Pellet Guns



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ISSUES RELATED TO INTERNAL SECURITY

- Strategy for Managing Internal Security
- Counter-terrorism Infrastructure in India
- ISIS Challenge in India
- Comprehensive Convention on International Terrorism
- Naxalism
- Peace Accord
- Organized Crime
- Media and Internal Security Threat
- Does Social Media Threaten Democracy?