

UPSC Syllabus (Explained)

Micro Topics Listing

Pre cum Mains

History

ANCIENT HISTORY

1. Pre Historic Cultures In India

- ▶ Periodization of Indian pre history
- ▶ Sources of pre history
- ▶ Stone age
 - Paleolithic (2 million BC – 10,000 BC)
 - Mesolithic (10,000 BC – 8,000 BC)
 - Neolithic (8000 BC – 4000 BC)
- ▶ Chalcolithic Age (4000 BC – 1500 BC)
- ▶ Iron age (1500 BC-200 BC)
- ▶ Impact of Iron

2. Pastoral and Farming Communities

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

3. Indus Valley Civilization

- ▶ Major Cities Town Planning
- ▶ Harappan Trade
- ▶ Agriculture
- ▶ Domestication of animals
- ▶ Crafts
- ▶ Religion
- ▶ Harappan Pottery
- ▶ Weights and Measures
- ▶ Script and Language
- ▶ Images
- ▶ Decline of Harappan Culture

4. Vedic Society

- ▶ Original Home of Aryans
- ▶ Features of Aryan Culture

- ▶ Vedic Texts
- ▶ Sources for Reconstructing Vedic Society and Culture
- ▶ Geography of the Rig Vedic Period and geography of the later Vedic Phases
- ▶ Economic Conditions
- ▶ Political Organisation and Evolution of Monarchy
- ▶ Social Organisation and Varna System
- ▶ Religion and Thought

5. Pre Mauryan Period

- ▶ Formation of states
- ▶ The Sixteen Mahajanapadas
- ▶ Republics
- ▶ Rise of urban centres
- ▶ Haryanka dynasty
- ▶ Shishunaga dynasty
- ▶ Nanda dynasty

6. The Mauryan Empire

- ▶ Chandragupta and Bindusara
- ▶ Megasthenes
- ▶ Asoka and His Successors
- ▶ Asoka's Inscriptions and Sites
- ▶ Asoka's Dhamma
- ▶ Mauryan. Administration, Economy, Society and Art
- ▶ The Arthashastra

7. Post-Mauryan India (sc 200-AD 300)

- ▶ Society: Evolution of Jatis
- ▶ Sangam Texts-and Society
- ▶ Satavahanas and Other Indigenous Dynasties
- ▶ Foreign Dynasties

- ▶ Commercial Contacts with the Outside World
- ▶ Schools of Art

8. Growth of Jainism and Buddhism

- ▶ Jainism
- ▶ Buddhism

9. Imperial Guptas

- ▶ Sources of Gupta Rule
- ▶ Political history of Guptas
- ▶ Fahien
- ▶ Gupta Administration
- ▶ Gupta Culture
- ▶ Urban centres in Gupta period
- ▶ Economic Conditions

10. Harshavardana

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

11. The Southern Dynasties

- ▶ The Shathavahanas (230 BC TO AD 225)
- ▶ The Pallavas (AD 330-796)
- ▶ The Chalukyas (AD 535-1190)
- ▶ The Pandyas of Madurai (AD 590-1323)
- ▶ The Chola Dynasty (AD 850-1310)
- ▶ Rashtrakutas (AD 753-973)

MEDIEVAL INDIA

1. Central Asian Politics and the Advance of Babur towards India

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

2. Struggle for Empire in North- India (Afghans, Rajputs and Mughals)

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

3. Struggle for Empire in North India

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

4. The Establishment of the North Indian Empire

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

5. Consolidation and Expansion of the Empire - Akbar

- ▶ Conflict with the Afghans - Hemu
- ▶ 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

6. 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

7. 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

8. The Deccan and the Mughals (Upto 1657)

- ▶ The Deccani States upto 1595
- ▶ Mughal Advance towards the Deccan
- ▶ Mughal Conquest of Berar, Khandesh and Parts of Ahmadnagar
- ▶ Rise of Malik Ambar, and Frustration of
- ▶ Mughal Attempt at Consolidation (1601-27)
- ▶ Extinction of Ahmadnagar, Acceptance of Mughal
- ▶ Suzerainty by Bijapur and Golconda
- ▶ Shah Jahan and the Deccan (1636-57)
- ▶ Cultural Contribution of the Deccani States

9. 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

10. 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
- ▶ Nur Jahan, and the Nur Jahan '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

11. Aurangzeb - Religious Policies, North India and the Rajputs

- ▶ War of Succession
- ▶ Religious Policy : First Phase (1658-79)
- ▶ Reforms and Puritanical Measures, Hindu
- ▶ Temples, Jizyah; Second Phase (1679-1707)
- ▶ Territorial Consolidation and Expansion of Empire - North India
- ▶ Popular Revolts - Jats, Satnamis, Afghans and Sikhs
- ▶ Breach with Marwar and Mewar

12. 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
- ▶ Shivaji's Swarajya - Administration and Achievements
- ▶ Aurangzeb and the Deccani States (1658-87)
- ▶ Marathas and the Deccan (1687-1707)
- ▶ Assessment of Aurangzeb and the Jagirdari Crisis

13. 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
- ▶ The Commercial Classes

14. Economic Life-Patterns and Prospects

- ▶ Inland Trade
- ▶ Overseas Trade - Role of Foreign Trading
- ▶ Companies - Position of Indian Merchants Over-land Trade

- ▶ The Mughal State and Commerce
- ▶ Trend of India's Economy and Prospects during the First Half of the Eighteenth Century

15. Religion, Fine Arts, Science and Technology

- ▶ Religion- Hindu Religion, Sikh Religion, Islam
- ▶ Fine Arts - Architecture, Painting, Language and Literature, Music
- ▶ Science and Technology

16. Northern India in the First Half of the Eighteenth Century

- ▶ Bahadur Shah I, and the Beginning of the Struggle
- ▶ For Wizarat - Rajput Affairs - Marathas and the
- ▶ Deccan - Accentuation of the Party Struggle

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

17. The Maratha Bid for Supremacy

- ▶ The Marathas and their Policy of Expansion
- ▶ 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);
- ▶ Third Battle of Panipat

MODERN HISTORY

1. Scenario before 1857

- ▶ Later Mughals
- ▶ Regional powers in 18th Century
- ▶ The British conquest of India
- ▶ The wars during British conquest of India
- ▶ British Administration before 1857

2. Revolt of 1857

- ▶ Indian National Movement (1858-1905)
- ▶ Early Nationalists and Swadeshi Movement
- ▶ Government of India Act 1909
- ▶ Home rule league movement

3. The struggle for Swaraj

- ▶ Montague's statement – Aug 1917
- ▶ Emergence of Gandhi – as a mass leader
- ▶ Khilafat & Non-Cooperation Movement (NCM)
- ▶ Swaraj Party
- ▶ Revolutionary Terrorism phase II (1920's)
- ▶ Simon Commission and Nehru report

4. Intimation of freedom

- ▶ Civil Disobedience Movement
- ▶ Round table conference
- ▶ Poona pact
- ▶ Government of India Act 1935
- ▶ Tripuri session – 1939
- ▶ August offer
- ▶ Individual Satyagraha 1940-41

5. Towards achievement of freedom

- ▶ Popular struggles in the princely states
- ▶ 2nd World War and Nationalist response

6. Partition of India

- ▶ Rise of Communalism
- ▶ Wavell plan
- ▶ Cabinet Mission Plan
- ▶ Mountbatten plan

7. During the freedom struggle

- ▶ Indian renaissance/socio-religious movement
- ▶ Civil Rebellions during British
- ▶ Tribal movements during British period

- | | | | |
|--|--------------------------|-------------------------------------|--------------------------|
| ▶ Peasant's movement during British period | <input type="checkbox"/> | ▶ Role of women in Freedom Struggle | <input type="checkbox"/> |
| ▶ Working class Movement (1850-1900) | <input type="checkbox"/> | ▶ Governor generals of India | <input type="checkbox"/> |
| ▶ Growth of communalism | <input type="checkbox"/> | ▶ Viceroys of India | <input type="checkbox"/> |
| ▶ Left and communist trends in National Movement | <input type="checkbox"/> | ▶ Important persons | <input type="checkbox"/> |
| ▶ Press and education during British period | <input type="checkbox"/> | ▶ Important news paper/journals | <input type="checkbox"/> |
| | | ▶ Congress sessions | <input type="checkbox"/> |

POST INDEPENDENCE INDIA

1. Re-organisation of states

- ▶ Constitutional provisions related to State formation
- ▶ Factors that lead to merger
- ▶ Accession of the princely states
- ▶ Accession of States under France and Portuguese
- ▶ Accession of Sikkim
- ▶ Rehabilitation of the Refugees
- ▶ Federal crisis
- ▶ Regional aspirations, insurgencies and areas of tension
- ▶ Accommodation and national integration

2. Linguistic Regionalism In India

- Constitutional position and language policy
- Language and regionalism
- Recent controversy due to rise of Hindi

3. Tribal Issue And Policy Consolidation

- ▶ Issues & Present Status
- ▶ Policy consolidation

4. Issue Of Women And Evolution Of Women Movement

- ▶ Issues & challenges
- ▶ Women movements
- ▶ Government policy response and legislation
- ▶ Governmental schemes

5. Problem Of Caste And Social Consolidation

- ▶ Caste practices in India
- ▶ Ambedkar Movement
- ▶ Constitutional provisions
- ▶ Recent government initiatives for emancipation of Scheduled Castes
- ▶ Issues of Manual Scavenging

6. Communalism & Social Consolidation

- ▶ Secularism
- ▶ Causes of Communalism in India
- ▶ Consequences of the communalism and social consolidation

7. Issue Of Linguistic Minorities

- ▶ Operational Inefficiency
- ▶ Government initiatives

8. Overview Of Economic Development Since Independence

- ▶ Planning in India

9. Agriculture

- ▶ Industry
- ▶ Service sector
- ▶ Current challenges facing the Indian economy
- ▶ Agriculture
- ▶ Journey through Five Year Plans
- ▶ Land Reforms
- ▶ Post Green Revolution Agricultural Issues
- ▶ Agrarian Movements
- ▶ Achievements in Agriculture Since Independence
- ▶ Recent Challenges

10. Industry

- ▶ Industrial development since independence
- ▶ Public sector since independence
- ▶ Sectoral Development
- ▶ Private Sector since Independence
- ▶ Industrial Policy since Independence
- ▶ Make in India

11. New Economic Policy

- ▶ Impact of New Economic Policy

12. Post Independence Policy Of Science And Technology

- ▶ India's Policy in the Field of the Science and Technology
- ▶ Institutional Framework for Science and Technology Development

- ▶ Science and Technology In Pre- Reform Period
- ▶ Impact of Economic Reform on the Science and Technology in India:
- ▶ New Policy Initiatives in the S&T
- ▶ Agenda of the Skill Training

WORLD HISTORY

1. Beginning of Modern Age

- ▶ Disintegration of the Feudal System
- ▶ Renaissance
 - Humanism
 - Art and Architecture
 - Literature
 - Science
 - Reformation etc.
- ▶ Explorations, Discovery, Trade
- ▶ Colonization – Rise of Nation State
- ▶ The English Revolution

2. French Revolution

- ▶ Causes
- ▶ The revolution in France
- ▶ France under Napoleon
- ▶ Impact of revolution
- ▶ Significance of revolution

3. Nationalism in Europe

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

4. Colonialism and Imperialism

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

5. Emergence of USA

- ▶ Foundation of American Colonies
- ▶ The Independence of United States of America
- ▶ The American Revolutionary War
- ▶ What was the impact of American Revolution?

- ▶ Political Effects of the Revolution
- ▶ How did the American Revolution influence the French Revolution?
- ▶ US Civil War
- ▶ Impact of Civil War on USA
- ▶ Global Impact of US Civil War
- ▶ Impact on India

6. World War-I

- ▶ Major causes of the war
- ▶ Course of the war
- ▶ Analysis of major events of the war
- ▶ Consequences of World War I
- ▶ Aftermath of World War I
- ▶ League of Nations

7. Russian Revolution

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

8. Inter-War Years (1919 To 1939)

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

9. World War- II

- ▶ Foundations of the war
- ▶ Course of the war
- ▶ Aftermath of war
- ▶ Analysis of the war
- ▶ Decolonization phase

10. Development In Middle East

- ▶ Democratic reforms in Middle East
- ▶ Arab nationalism
- ▶ Israel

11. Cold War

- ▶ Reasons
- ▶ Development of Cold War (1945-1953)
- ▶ To what extent was there a thaw after 1953?
- ▶ Nuclear Arms Race and the Cuban Missile Crisis (1962)

12. Post Cold-War World

- ▶ Global issues since 1991
- ▶ Integration of Europe
- ▶ European integration- a timeline
- ▶ Rise of global Islamic terrorism
- ▶ Rise of China

13. Communism, Socialism and Capitalism

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

INDIAN CULTURE**1. Visual Art**

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

2. Architecture in Ancient India

- ▶ 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
- ▶ Chola Period
- ▶ Pandya Temples
- ▶ Vijaynagar Period
- ▶ Nayaka Temples

- ▶ Temples of Kerala
- ▶ Vesara Style
- ▶ Hoysala Style
- ▶ Rashtrakuta Period

3. Indo-Islamic Architecture

- ▶ Imperial Style (Delhi Sultanat)
- ▶ Provincial Style
- ▶ Mughal Style
- ▶ Sikh Style of Architecture
- ▶ Rajput Architecture
- ▶ Salient features

4. Modern Architecture

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

5. Indian Paintings

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

6. Pottery Tradition in India

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

7. Music in India

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

8. Dances in India

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

9. Martial Arts in India

- ▶ Genesis of Martial Arts
- ▶ Forms of Traditional Martial Arts

10. Indian Theatre

- ▶ Classical Sanskrit Theatre
- ▶ Regional Theatre
- ▶ Modern Theatre
- ▶ Renaissance of Indian Theatre

11. Indian Puppetry

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

12. Indian Cinema

- ▶ Cinema in India
- ▶ History of Indian Cinema
- ▶ Classification of Indian Cinema Film
- ▶ Music of India

13. Religions in India

- ▶ Pre-Vedic Religion
- ▶ Hinduism

- ▶ Buddhism
- ▶ Jainism
- ▶ Sikhism
- ▶ Islam
- ▶ Christianity
- ▶ Zoroastrianism
- ▶ Judaism
- ▶ Philosophy in India

14. Bhakti & Sufi Movements

- ▶ Bhakti Movement
- ▶ Vaishnava Acha:ryas:Metaphysical Foundatio
- ▶ Other Saints of Bhakti Movement
- ▶ Maharashtra Dharma
- ▶ Sufism

15. Languages & Literature in India

- ▶ Sanskrit Literature
- ▶ Pali Literature
- ▶ Prakrit Literature
- ▶ Tamil Literature
- ▶ Telugu Literature
- ▶ Malayalam Literature
- ▶ Kannada Literature
- ▶ Odia Literature
- ▶ Assamese Literature
- ▶ Bengali Literature
- ▶ Gujarati Literature
- ▶ Rajasthani Literature
- ▶ Punjabi Literature
- ▶ Marathi Literatur
- ▶ Hindi Literature
- ▶ Persian Literature
- ▶ Urdu Literature

16. Miscellaneous Topics

- ▶ Indian Handicrafts
- ▶ Indian Universities
- ▶ Personalities Related to Culture
- ▶ Places of Cultural Interest
- ▶ Fairs and Festivals in India
- ▶ Cultural Institutions in India
- ▶ Awards and Honours Associated with Culture
- ▶ The Calendar
- ▶ The Eras
- ▶ Science and Technology in Ancient India
- ▶ UNESCO's List of Cultural Heritage in India

- ▶ Legal Provisions Related to the Protection and Promotion of Indian Culture and Heritage

17. Recent developments

- ▶ Schemes for Cleanliness of Tourist Places
 - Swachh Bharat - Swachh Smarak
 - Swachh Bharat - Swachh Pakwan (Hunar Zaika)
 - 'Swachh Bharat - Swachh Paryatan'
 - Swachh Smarak Swachh Bharat' app
- ▶ National Tourism Policy, 2015
- ▶ Schemes for Development of Cultural Heritage
 - Sanskriti App
 - Cultural Mapping of India
 - Cultural Heritage Youth Leadership Programme
 - Preservation of Cultural Heritage of Himalayas
 - Nearly 100 Monuments Identified for Portal on "Must-See Monuments"
- ▶ Schemes for Monument Development
 - HRIDAY
 - SWADESH DARSHAN
 - PRASAD SCHEME
 - Adarsh Smarak Yojana
 - Monuments of National importance
- ▶ Cultural Scheme Monitoring System
- ▶ Schemes for promotion of Culture
 - Culture Ministry To Grade Artists, Writers For Selection Process
 - Schemes for Serious Literature and Litterateurs

- National Mission on Monuments and Antiquities
- National Mission on Manuscripts
- National Mission on Libraries
- Gandhi Heritage Sites Mission
- ▶ 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
 - Animal Sports in India
 - Jallikattu
 - Kambala
 - Bulbul Fight
 - Bullock Cart Racing
- ▶ GI Tag
 - Definition:
 - GI vs. Trademark
 - Rights under GI
 - Famous Goods
 - Latest addition
- ▶ Festivals in News
- ▶ International Yoga Day
- ▶ Rashtriya Ekta Diwas
- ▶ Buddhist Circuit



Remarks

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Geography

PHYSICAL GEOGRAPHY

1. Geomorphology

- ▶ **The origin of the Earth**
 - Early Theories
 - Modern Theories – BBT
 - Star Formation
 - Formation of Planets
 - Solar System
- ▶ **The Evolution of the Earth**
 - Layered Structure (5 layers)
 - Evolution of Lithosphere
 - Evolution of Atmosphere
 - Evolution of Hydrosphere
- ▶ **Geological History of the Earth**
- ▶ **Earth**
 - Latitude and Longitude including important Parallels and Meridians
 - Motions of the Earth - Rotation, Revolution and their effects
 - Inclination of the Earth's Axis and its effects
 - Local and Standard Time and the International Date Line, Calendar
 - Eclipses - Solar, Lunar
- ▶ **Origin of Life**
- ▶ **Geological Time Scale**
- ▶ **Interior of the Earth**
 - Sources of Information
 - Direct
 - Indirect - Earth Quake Waves
 - Volcanoes
 - Crust
 - Mantle
 - Core

- ▶ **Geology**
 - Minerals
 - Major Elements of the Earth's Crust
 - Minerals – Feldspar, Quartz, Pyroxene Amphibole, Mica, Olivine
 - Physical Characteristics—Crystal Form, Cleavage Fracture, Lusture, Color, Streak
 - Transparency, Structure, Hardness, Specific Gravity
 - Metallic minerals – precious Ferrous, Non Ferrous
 - Non-metallic Minerals – Sulphur, Phosphates, Cement
 - Rocks (Aggregate of Minerals)
 - Petrology
 - Rocks & landforms
 - Rocks & Soils
 - 3 Family of Rocks
 - Igneous
 - Sedimentary
 - Metamorphic
 - Rock Cycle
- ▶ **Earthquakes**
 - Waves: P,S, Body, Surface,
 - Shadow Zone
 - Types of Earthquakes
 - Effects
 - Frequency
 - Locating an Epicentre
- ▶ **Volcano**
 - Types
 - Shield
 - Composite
 - Caldera
 - Flood Basalt

- Mid Ocean Ridge
- Landforms (intrusive)
 - Batholiths
 - Lacoliths
 - Lapoliths
 - Phacoliths
 - Sills
 - Dykes
- ▶ **Geomorphic Processes**
 - Earth's Surface
 - Exogenic Forces
 - Endogenic Forces
 - Gradation , Degradation & Agradation
 - Geomorphic Process
 - Endogenic Process
 - Diastrophism
 - ◆ Orogenic
 - ◆ Epierogenic
 - ◆ Earthquakes
 - ◆ Plate movements
 - Volcanism
 - Exogenic Forces
 - Denudation Processes
 - ◆ Weathering
 - ◆ Mass movements
 - ◆ Erosion Transportation & Deposition
- ▶ **Distribution of Continents & Oceans**
 - Theories
 - Continental Drift Theory
 - Alfred Wegner 1912
 - 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
 - Forces of Drifting
 - Pole Fleeing Force
 - Tidal Force
 - Post Drift Studies
 - Convectional Current Theory
 - Mapping of the Ocean Floor
 - Continents – plate Tectonics
 - Lithospheric Plates

- Major Plate
- Minor Plates
- Plate Boundaries
 - Divergent
 - Convergent
 - Transform
- Rates of Plate Movements
- Force of plate movements
- Indian Plate
 - Movement from 71mnyrs ago till Today
- ▶ **Landforms and their Evolution**
 - Causes
 - Geomorphic Processes
 - Agents
 - Geomorphic Agents
 - Erosional or Destructional
 - Depositional or Constructional
 - Agents and their Impacts
 - Wind , Running Water , Ground Water , Glaciers , Waves & Currents
 - Winds
 - One of the Two dominant agents in Hot deserts
 - Cause – Deflation Abrasion Impact
 - Erosional landforms
 - Pediments and Pedi plains
 - Playas
 - Deflation Hollows and Caves
 - Mushroom , Table & Pedestal Rocks
 - Depositional Landforms
 - Barchans
 - Seif
 - Parabolic
 - Transverse
 - Longitudinal
 - Running Water
 - Humid Regions
 - 2 Components
 - Overland Flow – Sheet
 - Linear Flow – Strems
 - Stages
 - Youth Mature Old
 - 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), Lapias, Ridges , Limestone Pavements
 - ▢ Caves – Altering bed of Rocks (Shale sandstone quartzite), 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 Till
 - ▢ Moraines
 - ▢ Eskers
 - ▢ Outwash Planes
 - ▢ Drumlins
- Waves and Currents
 - ▢ High Rocky Coasts & Low Sedimentary Coasts
 - ▢ Erosional Landforms
 - ▢ Clifs
 - ▢ Terraces
- ▢ Caves
- ▢ Stacks
- ▢ Depositional Landforms
 - ▢ Beaches and Dunes
 - ▢ Bars Barriers Spits
- Weathering
 - ▢ Weather over Earth Materials
 - ▢ 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(Flaking)– Exfoliation Domes , Tors
 - ▢ Significance of Weathering
 - ▢ Soil Formation
 - ▢ Biomes and Biodiversity
 - ▢ Leaching / Enrichment
 - Mass Movements
 - ▢ Activating causes
 - ▢ Forms of movement – Heave Flow Slide
 - ▢ 3 major Groups – Slow Movement , Rapid Movements , land Slides
 - ▶ **Landforms across the world:**
 - Rivers and lakes
 - Mountain and Peaks
 - Plateaus

2. Climatology

- ▶ **Composition**
 - Gases
 - Water Vapour
 - Dust Particles
- ▶ **Structure**
 - Exosphere
 - Thermosphere
 - Mesosphere
 - Stratosphere
 - Troposphere
 - Altitude vs Temperature
- ▶ **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
- ▶ **Temperature**
 - Factors controlling T distribution
 - Distribution of T Month of January-July
 - Range of T Month of January-July
 - Inversion of Temperature
- ▶ **Atmospheric Circulation and Weather Systems**
 - Atmospheric Pressure
 - Vertical variation of pressure
 - Horizontal distribution of pressure
 - World Distribution of Sea Level Pressure
 - Factors affecting the velocity and direction of the WIND

- Pressure Gradient Force
- Frictional Force
- Coriolis Force
- Pressure and Wind (Cyclonic & Anticyclone Circulation)
- ▶ **General Circulation of the Atmosphere – Pattern of Planetary Winds**
 - Latitudinal Variation of Atmospheric Heating
 - Emergence of Pressure Belts
 - Migration of Belts Following apparent Path of Sun
 - Distribution of continents & Oceans
 - Rotation of the Earth
- ▶ **Circulation**
 - Simplified Global Circulation – Hadley Cell, Ferrel Cell
 - Seasonal Wind
 - Local Wind
 - Land and Sea Breezes
 - Mountain and Vally winds
 - AIR MASS – fronts
 - Extra Tropical Cyclone
 - Thunderstorms
 - Tornadoes
- ▶ **Water in the Atmosphere**
 - Water Vapour
 - Precipitation
 - Humidity – Absolute and Relative
 - Saturation – Dew Point
 - Evaporation and Condensation
 - Dew
 - Frost
 - Fog & Mist
 - Clouds
 - Types – Cirrus Cumulus Stratus Nimbus
 - High – Cirrus Cirrostratus Cirrocumulus
 - Middle – Altostratus 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

- ▶ **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

3. Oceanography

- ▶ **Water on the Surface of the Earth**
- Hydrological Cycle
 - Component
 - Processes
- ▶ **Oceans**
- Relief of the Ocean floor
- 4 divisions of the ocean floor
 - Continental Shelf
 - Continental Slope
 - Deep sea plain
 - Oceanic deep and Trenches
- Minor relief features
 - Mid oceanic ridges
 - Seamount
 - Submarine canyons
 - Guy outs
 - Atoll
- Temperature of the Ocean Water
 - Vertical
 - Spatial
 - Factors affecting Temperature distribution
 - Latitude
 - Unequal distrivution of land & Water
 - Prevailing wind
 - Ocean Currents
 - Horizontal & Vertical Distribution

- Thermocline
 - 3 layers
- Salinity of the Ocean Water
 - Factors affecting salinity
 - Evaporation and precipitation
 - Fresh water flow from rivers
 - Wing
 - Ocean currents
 - Horizontals distribution of sailinity
 - Vertical Distribution of salinity
- Density of Ocean Waters
- ▶ **Movements of ocean Water**
- Factors influencing Movement
 - Temperature
 - Salinity
 - Density
 - Sun MOON WINDS
- Motion – Horizontal & Vertical Currents
- Waves
 - Motion of waves and water molecules
 - Characteristics Of WAVE
 - Crest and Trough
 - Height
 - Amplitude
 - Period
 - Length
 - Speed
 - Frequency
 - Tides
- Relation between Gravitional 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
 - Influenced by 2 forces
 - Primary Force that initiates the movement
 - Heating of solar energy
 - Wind
 - Gravity
 - Coriolis force
 - Secondary force that influence the currents to flow
 - Characteristic – Drift – 5 knots

- 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

4. Water Resource

- ▶ Underground water resource
- ▶ Surface water resources
- ▶ Inland water resources: Utilization of inland water resources by man
- ▶ Oceanic water resources: Main features of ocean
- ▶ Utilization of oceans by man
- ▶ Water consumption patterns
- ▶ Water pollution
- ▶ Conservation of water resources
- ▶ Techniques of water conservation

5. Biogeography

- ▶ **Soil**
 - Soil Characteristics
 - Factors Responsible for Soil Formation
 - Stages of Soil Formation
 - Soil Forming Processes
 - Soil Profiles and Horizons
 - Soil Classification
 - Soil Erosion and Conservation
- ▶ **Vegetation resources**
 - Types of natural vegetation

- Forests
- Significance of forests
 - Economic significance, Ecological significance
 - Cultural significance
- Factors of forest development
- Extent of forest cover
- Classification of forests
 - Grasslands
 - Desert vegetation
 - Tundra Vegetation
- Economic utilization of forests
- Deforestation
 - Deforestation in tropical forests
 - Deforestation in temperate forests
 - Rate and extent of deforestation
 - Causes and factors of deforestation: Immediate causes of deforestation
 - Indirect deforestation
 - Underlying causes of deforestation
- Conservation of forests
 - Forest conservation strategies
 - Reforestation
 - Monoculture plantation
 - Afforestation
- Types of forestry
 - Social forestry
 - Agro-forestry

HUMAN GEOGRAPHY

1. Demography

- ▶ Concept of human resources
- ▶ Population distribution
- ▶ Factors of population distribution—Physical factors
- ▶ Socio-cultural factors
- ▶ Demographic factors
- ▶ World population distribution
 - Ecumene
 - Non-ecumene
- ▶ Continent-wise distribution of population
- ▶ Density of population

- ▶ Pattern of population density
- ▶ Population increase (growth) in the world
- ▶ Causes of rapid increase in population
- ▶ Present trend
- ▶ Future projections
- ▶ Determinants of population growth
- ▶ Natural increase
- ▶ Characteristics of population
 - Age composition
 - Population pyramids
 - Sex composition
 - Literacy

- ▶ Theories of population growth
 - Malthusian theory
 - Marxian theory
 - Demographic transition theory
- ▶ Optimum population
 - Over-population
 - Under-population
- ▶ Population problems
 - Population problems of developing countries
 - Population problems of developed countries
 - Population dilemma of Europe
- ▶ Population Policies: of China, of India
- ▶ Various types of rural settlements
- ▶ Relationship between house types with relief, climate and building materials

2. Urbanization

- ▶ Basic Feature and Pattern's of India's Urbanization
- ▶ Issues of Urbanization in India
 - Rural Urban Migration
 - Emergence of Slums
 - Urban Transport
 - Waste Disposal
 - Water Supply, Drainage and Sanitation
 - Electronic Waste
 - Urban Poverty
 - Real Estate (Regulation & Development) Bill, 2013
- ▶ Way Forward to Tackle Issues Related to Urbanization
 - Inclusive Cities/Smart cities
 - Recent government programmes: AMRUT

- ▶ Migration
- ▶ Displacement
- ▶ Importance of the Rehabilitation Policy
- ▶ Urban settlements: types
- ▶ Urbanisation process in India.
- ▶ Morphology of urban settlements
- ▶ Town planning and patterns of rural settlement
- ▶ Settlement types of the world
- ▶ Migration: Push factors and pull factors
- ▶ Emigration during colonial, post-independent and post-liberalisation period
- ▶ Internal versus world migration
- ▶ Functional classification of cities
- ▶ Difference between boundaries and frontiers, their classification
- ▶ Rural urban fringe characteristics, advantages, problems
- ▶ National urbanisation policy
- ▶ Principles of urban planning
- ▶ Land cover transformation
- ▶ Factors affecting rural settlements, their types and patterns
- ▶ Cities – hierarchical classification, morphological classification

3. Census

- ▶ Literacy
- ▶ Sex ratio
- ▶ Family Planning
- ▶ Old Age
- ▶ Age Structure
- ▶ Density
- ▶ Population growth
- ▶ Census terminology

ECONOMIC GEOGRAPHY

1. Agriculture

- ▶ **Land resource**
 - Land-use
 - Land capability classification
 - Causes of Land Degradation
 - Impact of Land Degradation
 - Steps taken by GOI
 - Sustainable Land Management
- ▶ **Basic terms related to Agriculture**
 - Performance of the agriculture sector
 - Types of farming in India
 - 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
- ▶ **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
 - Abaca, Henequeno
 - Sisal
 - Raw Silk
 - Production pattern
 - International trade
 - Natural Rubber
 - Other sources of rubber
 - Plantations in South-east Asia
 - Production pattern
 - International trade
 - Sugarcane
 - Conditions of growth
 - Production pattern
 - International trade
 - Sugarbeet—Conditions of growth
 - Production pattern
 - Sugar industry
 - Sugar consumption
 - International trade

2. 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
- ▶ Precious metals: Gold
- ▶ Silver
- ▶ Platinum
- ▶ Mineral chemicals
 - Mica
 - Potash
 - Phosphate
 - Nitrates
 - Sulphur
- ▶ Conservation of mineral resources

3. 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
 - By products of coal
 - Conservation of Coal Petroleum
- ▶ 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
- ▶ Atomic (nuclear) energy
 - Atomic source minerals: Uranium
 - World distribution of uranium
 - Production of uranium
 - Thorium
 - Production of atomic (nuclear) energy
 - Nuclear energy: the energy of future
- ▶ Alternative (non-conventional) sources of energy
 - Solar energy
 - Wind energy
 - Geothermal power
 - Tidal energy
 - Wave energy
 - Biomass energy
- ▶ Alternate Energy Sources
 - Hydrogen as a Fuel for Future or Hydrogen as an Alternative Energy Source
 - Microbial Fuel Cell
 - Energy Context with Respect to Indian Scenario
 - Energy Plantation
- ▶ Energy crisis

4. Industry

- ▶ Industrial development
- ▶ Iron And Steel Industry
 - Process of iron and steel production
 - Location of iron and steel industry
 - Early localization
 - Development of iron manufacture
 - Distribution of iron and steel industry
 - Global steel production
 - International trade
 - Growth potential of the steel industry
- ▶ 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 <input type="checkbox"/> | ○ Pulp and paper industry: Essential conditions for pulp production <input type="checkbox"/> |
| ○ Machine tools and machines: Areas of production <input type="checkbox"/> | ○ Production of paper and paper board <input type="checkbox"/> |
| ○ Industrial machinery: Textile machinery <input type="checkbox"/> | ○ Newsprint <input type="checkbox"/> |
| ○ Other industrial machinery <input type="checkbox"/> | ○ International trade <input type="checkbox"/> |
| ○ Agricultural machinery <input type="checkbox"/> | ○ Salient features of pulp and paper industry <input type="checkbox"/> |
| ▶ Manufacturing of transport equipment <input type="checkbox"/> | ▶ Cement industry <input type="checkbox"/> |
| ○ Automobile industry <input type="checkbox"/> | ○ Distribution of cement industry <input type="checkbox"/> |
| ○ Railway car and locomotive industry <input type="checkbox"/> | ○ Recent trends: Main global competitors <input type="checkbox"/> |
| ○ Shipbuilding <input type="checkbox"/> | ▶ Petroleum refining industry: Localization <input type="checkbox"/> |
| ○ Recent trends <input type="checkbox"/> | ○ Site selection of petroleum refineries <input type="checkbox"/> |
| ○ Aircrafts industry <input type="checkbox"/> | ○ History of oil refineries <input type="checkbox"/> |
| ▶ Chemical Industry <input type="checkbox"/> | ○ World pattern of oil refining <input type="checkbox"/> |
| ○ Classes of chemicals: Branches of chemical industry <input type="checkbox"/> | ○ Petroleum products <input type="checkbox"/> |
| ○ Heavy chemical industry <input type="checkbox"/> | ▶ Industrial Regions <input type="checkbox"/> |
| ○ Production of acids and alkalies <input type="checkbox"/> | ○ Characteristics of industrial regions <input type="checkbox"/> |
| ○ Rise of chemical industry <input type="checkbox"/> | ○ Delimitation of an industrial region <input type="checkbox"/> |
| ○ Fertilizer industry: Nitrogen fertilizers <input type="checkbox"/> | ○ Principal industrial regions of the world <input type="checkbox"/> |
| ○ Phosphate fertilizers <input type="checkbox"/> | ○ Industrial regions of Anglo America-USA, Canada, Western Europe and Central Britain, Germany, Belgium, Netherlands, France, Italy, Eastern Europe, Poland, Former USSR <input type="checkbox"/> |
| ○ Potash fertilizers <input type="checkbox"/> | ○ Eastern Asia—Japan, China, the 'Dragons', India, High tech patterns. <input type="checkbox"/> |
| ○ Explosives <input type="checkbox"/> | |
| ○ Glass industry: Production of glass <input type="checkbox"/> | |
| ▶ Agro-industries <input type="checkbox"/> | |
| ○ Synthetic rubber industry <input type="checkbox"/> | |

RECENT DEVELOPMENTS

1. Recent developments in Transport Sector

- | | |
|---|---|
| ▶ Long term irrigation fund <input type="checkbox"/> | ▶ Green corridor concept <input type="checkbox"/> |
| ▶ Sports Sector Gets the Infrastructure Status <input type="checkbox"/> | ▶ Made in India 'Medha' train <input type="checkbox"/> |
| ▶ Railways India Development Fund <input type="checkbox"/> | ▶ Antyodaya Express <input type="checkbox"/> |
| ▶ National Infrastructure Investment Fund <input type="checkbox"/> | ▶ Station Redevelopment Project <input type="checkbox"/> |
| ▶ Defence Innovation Fund <input type="checkbox"/> | ▶ Smart Railway Station <input type="checkbox"/> |
| ▶ Merger of Railway Budget with General Budget <input type="checkbox"/> | ▶ Yatri Mitra Seva <input type="checkbox"/> |
| ▶ Non-Fare Revenue Policies in Indian Railways <input type="checkbox"/> | ▶ National Highways Interconnectivity <input type="checkbox"/> |
| ▶ Rail Safety Fund <input type="checkbox"/> | ▶ Vehicle Fleet Modernization Programme <input type="checkbox"/> |
| ▶ Flexi Fare Method in Railway <input type="checkbox"/> | ▶ Transit Oriented Development Policy <input type="checkbox"/> |
| ▶ Rail Cadre Management <input type="checkbox"/> | ▶ Logistic Efficiency Enhancement Programme <input type="checkbox"/> |
| ▶ TRI-NETRA IN RAILWAYS <input type="checkbox"/> | ▶ Indian Bridge Management System <input type="checkbox"/> |
| ▶ National Rail Plan 2030 <input type="checkbox"/> | ▶ Road Connectivity Project for Left Wing Extremism (LWE) Affected Areas <input type="checkbox"/> |
| ▶ Draft Policy on Suburban Tracks <input type="checkbox"/> | ▶ North East Road Network Connectivity Project <input type="checkbox"/> |
| ▶ India's First Caterpillar Train <input type="checkbox"/> | ▶ TIR Convention <input type="checkbox"/> |
| ▶ Mission 41k <input type="checkbox"/> | ▶ National Road Safety Policy <input type="checkbox"/> |
| | ▶ Sagarmala <input type="checkbox"/> |
| | ▶ Urja Ganga Gas Line Project <input type="checkbox"/> |
| | ▶ TARANG <input type="checkbox"/> |

- ▶ E-trans
- ▶ DEEP (Discovery of Efficient Electricity Price)
- ▶ GARV II APP
- ▶ Trading of Energy Saving Certificates
- ▶ 24X7 POWERS FOR ALL
- ▶ Draft National Electricity Plan
- ▶ Habitat Commitment Index
- ▶ Airsewa Portal

2. Recent developments in Industrial Sector

- ▶ Delhi-Mumbai Industrial Corridor
- ▶ Amritsar-Kolkata corridor
- ▶ Chennai-Bangalore Industrial Corridor
- ▶ Bengaluru-Mumbai Economic Corridor
- ▶ Visakhapatnam-Chennai Industrial Corridor
- ▶ East Coast Economic Corridor
- ▶ Apex Corridor Developmental Authority
- ▶ Star Rating of Mines
- ▶ TAMRA PORTAL
- ▶ Mining Surveillance System
- ▶ COAL MITRA
- ▶ M-SIPS for Electronic Sector
- ▶ Real Estate (Regulation and Development) Act or RERA
- ▶ Indian Enterprise Development Service
- ▶ Trade Receivables Discounting System
- ▶ SME Business Environment Index
- ▶ Medipark
- ▶ ZED Scheme
- ▶ Startup Mentorship Circle
- ▶ FAME

3. Recent developments in agriculture field

- ▶ AADHAR Based Biometric Authentication in PDS: Pros and Cons
- ▶ Volatility in Pulse Prices
 - Arvind Subramanian Committee on Pulse Crises
 - Government Raises Buffer Stock of Pulses
 - PUSA Arhar 16 to Bridge the Demand-Supply Gap
- ▶ Agro Irradiation Centers
- ▶ Options Trading in Agricultural Produce
- ▶ Agricultural Marketing and Farm Friendly Reforms Index
- ▶ National Food Security Act

- ▶ Digitization and Agriculture
- ▶ Direct Benefit Transfer in Fertilized Sector
- ▶ Aquaponic Farm
- ▶ Gift Milk Scheme
- ▶ 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
 - Rashtriya Gokul Mission
 - Mission Fingerling
- ▶ Terms in Brief
 - Krishi Puruskar for Small Farmers
 - 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
 - Best Horticulture Award
 - Neem Coating of Urea
- ▶ Soil Health Card Scheme
- ▶ Paramparagat Krishi Vikas Yojana
- ▶ 'Pradhan Mantri Fasal Bima Yojana
- ▶ PM Krishi Sinchai Yojana
- ▶ National Agriculture Market

4. Places in news

- ▶ Majuli Island
- ▶ Ashalim Project
- ▶ Loktak Lake
- ▶ Barren Island
- ▶ Rio de Janeiro
- ▶ Gotthard Base Tunnel
- ▶ Panama Canal
- ▶ Akodara
- ▶ Genetic Garden of Halophytes
- ▶ Maharashtra
- ▶ Morocco
- ▶ Sankhuwasabha
- ▶ Andhra Pradesh
- ▶ Hambantota Port

- | | | | |
|--|--------------------------|---|--------------------------|
| ▶ Tirunelveli | <input type="checkbox"/> | ▶ Indus basin: Shahpur Kandi Dam Project | <input type="checkbox"/> |
| ▶ Palmyra | <input type="checkbox"/> | ▶ Ghatampur Thermal Power Project | <input type="checkbox"/> |
| ▶ Sabarimala Circuit | <input type="checkbox"/> | ▶ Deepest Rail Project | <input type="checkbox"/> |
| ▶ Libya, Sudan, Somalia, Syria, Iraq, Yemen and Iran | <input type="checkbox"/> | ▶ Lost Continent | <input type="checkbox"/> |
| ▶ Tembhli | <input type="checkbox"/> | ▶ Zealandia | <input type="checkbox"/> |
| ▶ Mahanadi and Tributaries | <input type="checkbox"/> | ▶ World's First Polluted River Discovered By Scientists | <input type="checkbox"/> |
| ▶ Agartala Rail Link | <input type="checkbox"/> | ▶ Pre-historic camping site found in Ladakh | <input type="checkbox"/> |
| ▶ Mekadatu Project on Kaveri | <input type="checkbox"/> | ▶ Report on Palaeo Channel of North West India | <input type="checkbox"/> |
| ▶ Yettinahole Project | <input type="checkbox"/> | ▶ Cyclones in News | <input type="checkbox"/> |
| ▶ Country's first Water Metro Project | <input type="checkbox"/> | | |

 *Remarks*

Indian Society Features & Social Justice

INDIAN SOCIETY

1. Salient features of Indian society

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

2. Diversity of India

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

3. Role of women's organizations

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

4. Poverty and development issues

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

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

5. Effects of globalization on Indian society

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

6. Social empowerment

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

7. Communalism

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

8. Secularism

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

9. Regionalism

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

SOCIAL JUSTICE

1. Welfare schemes for vulnerable sections of the population by the Centre and States

- ▶ Constitutional arrangement
- ▶ Women welfare
- ▶ Child welfare
- ▶ SC/ST welfare
- ▶ OBC welfare
- ▶ Minorities welfare
- ▶ Old age welfare
- ▶ Legislations
- ▶ Issues
- ▶ Reforms needed

2. Services relating to Health, Education, Human Resources

- ▶ Education structure in India
- ▶ Primary, secondary and higher education
- ▶ Initiatives taken by GOI in education
- ▶ Issues
- ▶ Reforms needed
- ▶ Recommendations of committees
- ▶ Future prospects in education sector
- ▶ Skill development
- ▶ Health indicators
- ▶ Health structure in India
- ▶ Private and Public health structure
- ▶ Issues
- ▶ Reforms needed
- ▶ NITI Aayog Report
- ▶ Economic development and human development

- ▶ Reforms needed
- ▶ SDGs and India

3. Issues relating to poverty and hunger

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

4. The Scheduled And Tribal Areas

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

WELFARE SCHEMES

1. Start-up and Skill Development

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

2. Vulnerable Sector

- ▶ Social Security
- ▶ Atal Pension Yojana
- ▶ Pradhan Mantri Jeevan Jyoti Bima Yojana
- ▶ Pradhan Mantri Suraksha Bima Yojana
- ▶ Minorities
- ▶ Nai Roshni Scheme
- ▶ USTAAD Scheme (Upgrading the Skills and Training in Traditional Arts/Crafts for Development)
- ▶ Nai Manzil Scheme
- ▶ Women and Child Development
- ▶ Beti Bachao Beti Padhao
- ▶ Sukanya Samridhi Yojana
- ▶ Digital Gudda Guddi Board
- ▶ Sabla
- ▶ Ujjawala Scheme
- ▶ Janani Suraksha Yojana
- ▶ Janani Shishu Suraksha Karyakram
- ▶ SC/ST
- ▶ Vanbandhu Kalyan Yojana
- ▶ Pradhan Mantri Adarsh Gram Yojana
- ▶ Disability
- ▶ Accessible India Campaign (Sugamya Bharat Abhiyan)

3. Health

- ▶ National Health Mission
- ▶ National Ayush Mission
- ▶ Swasthya Rakshan Program
- ▶ Jan Aushadhi Scheme

- ▶ Mission Indradhanush
- ▶ NFHS-4 survey

4. Education

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

5. Rural & 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)

6. Miscellaneous Schemes

- ▶ Jeevan Praman
- ▶ Digilocker
- ▶ Bharatnet Project (National Optical Fibre Network)
- ▶ INSPIRE (Innovation in Science Pursuit for Inspired Research)
- ▶ SAKAAR
- ▶ Digital India
- ▶ Namami Gange Project (Integrated Ganga Conservation Mission Project)
- ▶ Ganga Gram Yojana
- ▶ Jal Kranti Abhiyan
- ▶ Khelo India
- ▶ One Rank One Pension Scheme
- ▶ PRAGATI (Pro-Active Governance and Timely Implementation)
- ▶ Indian Community Welfare Fund (ICWF)

7. Inclusive growth

- ▶ Measurement criteria
- ▶ Government initiatives for inclusive growth
- ▶ Basic Amenities: Housing/Drinking Waters/ Sanitations
- ▶ Sustainable Development

8. Rural Development

- ▶ Rural development and poverty alleviation
- ▶ Review of the Existing Programmes
- ▶ Development Administration
- ▶ Panchayati Raj
- ▶ Agriculture and Rural Development

9. Social Sector Bills

- ▶ The Juvenile Justice (Care and Protection of Children) Act

- ▶ 'Surrogacy (Regulation) Bill, 2016'
- ▶ 'Child Labor (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 Benefits
- ▶ Transgender Persons (Protection of Rights) Bill 2016
- ▶ The Scheduled Castes and the Scheduled Tribes (Prevention of Atrocities) Amendment Act

SOCIAL ISSUES IN NEWS**1. Secularism, Regionalism & Communalism**

- ▶ Secularism and Anti-Conversion
- ▶ Regionalism: Demand for smaller states
- ▶ Repercussions of making Hindi compulsory
- ▶ Socio-Economic Caste Census, 2011

2. Issues related to Women

- ▶ Maternity benefit Amendment Bill
- ▶ Altruistic surrogacy in India
- ▶ Status of widows
- ▶ Acid Attacks
- ▶ SC banned Women Sterilization in India
- ▶ Issue of Sex ratio
- ▶ Issue of Triple Talaq
- ▶ Female Foeticide and Infanticide
- ▶ Reservation for Women in Legislature
- ▶ Women in Combat Duties
- ▶ Women in panchayats
- ▶ Women participation in Economy
- ▶ Challenges faced by Working Women
- ▶ Draft National Policy for Women, 2016

3. Issues related to Children

- ▶ Protection of Children from Sexual Offences
- ▶ Issue of malnutrition in India
- ▶ Amendments proposed in Child Labour Act
- ▶ Plight of street children
- ▶ Adoption Regulations, 2017
- ▶ National Child Policy
- ▶ Out of school children: Issues and Steps needed
- ▶ Cradle Baby Scheme
- ▶ Juvenile Justice System
- ▶ Child Marriages In India
- ▶ Draft bill on child abduction
- ▶ National Action Plan for Children, 2016
- ▶ Report on the Protection of Children (Inter-Country Removal and Retention) Bill, 2016

4. Social issues

- ▶ Social stigma attached with HIV
- ▶ Issues related to Transgender and Transgender Persons Bill, 2015
- ▶ Euthanasia Issue: An Analysis
- ▶ Right to Privacy and Aadhaar
- ▶ Mental Health Care Bill
- ▶ Anti-Trafficking Bill, 2016
- ▶ Challenge of ageing with dignity

- ▶ Rights of Persons with Disabilities Act
- ▶ Maintenance of Welfare of Parents and Senior Citizens Act
- ▶ Manual Scavenging
- ▶ Mob lynching and Rule of Law
- ▶ Issue related to Undertrials
- ▶ Issues related to Sanitation
- ▶ Sharp reality of displacement
- ▶ Moral policing
- ▶ Income inequality in India
- ▶ Forest Rights Act: Analysis

5. Health & Education

- ▶ Issue of poor infrastructure in schools
- ▶ No Detention Policy
- ▶ New Policy on Education

- ▶ Lancet Report on Healthcare spending
- ▶ New Health Policy, 2017
- ▶ Technology Adaptation in Health Care
- ▶ Food Fortification

6. Government initiatives in social sector

- ▶ Progress Panchayat initiative
- ▶ National Sex Offender Registry
- ▶ Slum Re-development
- ▶ Issue of farmer suicide in India
- ▶ Anthropological Survey of India
- ▶ National Commission for Socially and Educationally Backward Classes
- ▶ T.V.S.N. Prasad Report On Pellet Guns
- ▶ Uniform Civil Code
- ▶ Concept of Open Prison

 *Remarks*

Polity & Governance

POLITY

1. Historical Evolution & Features

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

2. Preamble

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

3. Citizenship

- ▶ Basic constitutional features
- ▶ Methodology of getting citizenship
- ▶ Modes of Losing the Citizenship of India

- ▶ Concept of dual citizenship
- ▶ Citizenship provisions in J&K
- ▶ Special privileges enjoyed by citizens in India

4. Fundamental Rights

- ▶ Significance of Fundamental Rights
- ▶ Right to Equality
- ▶ Right to Freedom
- ▶ Right against Exploitation
- ▶ Right to Freedom of Religion
- ▶ Cultural and Educational Rights
- ▶ Right to Constitutional Remedies
- ▶ Difference between procedure established by law and due process of law
- ▶ Writs and their uses
- ▶ Restrictive limitations on fundamental rights

5. DPSP

- ▶ Basic features
- ▶ Directives
- ▶ Economic and Social DPSP
- ▶ Gandhian DPSP
- ▶ Administrative DPSP
- ▶ DPSP related to International Peace
- ▶ Implementation of DPSP
- ▶ Fundamental Rights and the Directive Principles of State Policy Controversy

6. Fundamental Duties

- ▶ Features
- ▶ Link of Fundamental Rights and Fundamental Duties

7. Other Principles

- ▶ Process of law making in India
- ▶ Role of Constitutional and extra constitutional bodies in law making
- ▶ Basic structure: How it evolves?
- ▶ Different types of majorities required in Indian Constitution
- ▶ DPSP Fundamental Rights
- ▶ Doctrines Terminologies

8. Separation of Powers

- ▶ Features in American and UK Constitution
- ▶ Checks and balances provisions in Indian Constitution
- ▶ Judicial Review
- ▶ Concept of Separation of Powers

9. Comparison of the Indian constitutional scheme with that of other countries

- ▶ It should cover Comparison of USA, UK, India and neighbours

10. Union & States

- ▶ State Reorganization Commission (brief)
- ▶ Components of Indian territory
- ▶ Process of formation of new states
- ▶ Zonal Councils
- ▶ Union territories
- ▶ Special provisions for states

11. Functions and responsibilities of the Union and the States

- ▶ Regulating functions of Government
- ▶ Development functions of government
- ▶ Service providing functions of government
- ▶ Problems in implementation
- ▶ Recommendations for improvement
- ▶ Interrelationship between union, state and local government in implementation of roles
- ▶ Constitutional provisions related to financial devolution
- ▶ Issues of financial devolution

12. Issues and challenges pertaining to the federal structure

- ▶ Administrative relations
- ▶ Legislative relations
- ▶ Financial relations
- ▶ Misuse of Article 356
- ▶ Issues related to concurrent list
- ▶ Issues related to appointment of Governor
- ▶ Issues related to state formation
- ▶ Poor devolution of finances
- ▶ Reserving bill for Presidential approval
- ▶ Central sponsored schemes and issues
- ▶ Special package for different states
- ▶ Issues between Centre and State after 1990 reforms
- ▶ Foreign policy and Centre and State Relations

13. The President

- ▶ Importance of President
- ▶ Qualification
- ▶ Election procedure
- ▶ Advantages and disadvantages of single transferable form of voting
- ▶ Presidents' Term of Office and emoluments
- ▶ Executive Powers
- ▶ Legislative Powers
- ▶ Emergency Powers
- ▶ Financial Powers
- ▶ Miscellaneous powers
- ▶ Judicial powers
- ▶ Presidents Impeachment
- ▶ President as nominal head
- ▶ Issues
 - Ordinance making power
 - Passage of bills
- ▶ Misuse of emergency provisions
 - Pardon power
 - Coalition government

14. Vice President

- ▶ Office of the Vice-President
- ▶ Functions

15. Prime Minister

- ▶ Appointment of PM
- ▶ Functions of PM
- ▶ Role of PM with respect to
 - CoM
 - President
 - Lok Sabha
 - Political Party
 - Coalition Government

16. Council of Ministers

- ▶ Division of CoM
- ▶ Role of CoM
- ▶ Role of Cabinet
- ▶ Responsibilities of the Ministers

17. Attorney General of India

- ▶ Qualification
- ▶ Functions
- ▶ Powers with respect to parliament

18. Parliament

- ▶ Composition of Rajya Sabha
- ▶ Composition of Lok Sabha
- ▶ Composition of Legislative assembly and Legislative Council
- ▶ Qualification and disqualification of MPs and MLAs
- ▶ Vacation of seats
- ▶ Sessions of parliament
- ▶ Law making procedure
- ▶ Officers of Parliament and state legislature
- ▶ Parliament Proceedings
- ▶ Motions and resolutions in Parliament
- ▶ Powers and Privileges
- ▶ Financial proceedings
- ▶ Comparison of Lok Sabha and Rajya Sabha
- ▶ Comparison of Legislative assembly and council
- ▶ Women reservation in Parliament and issues
- ▶ Lowering of Parliamentary powers
- ▶ Parliamentary committees and their working
- ▶ Judicial activism and Parliament
- ▶ Delegated legislation and issues

19. The Union Judiciary

- ▶ Integrated judicial system
- ▶ Supreme Court

- Composition
- Independence of Supreme Court
- Jurisdiction of SC
- Judicial Review
- ▶ High Court
 - Composition
 - Terms and removal
 - Jurisdiction
 - Other powers
 - Lower judiciary
 - Appointment
 - Powers
- ▶ The role of the Supreme Court of India as guardian of the Constitution and protector of Fundamental Rights
- ▶ Judicial Review
- ▶ PIL
- ▶ Judicial Activism
- ▶ Judiciary appointment
- ▶ Collegiums System
- ▶ NJAC Controversy
- ▶ National Court of Appeal
- ▶ Judicial Accountability
- ▶ Issues of corruption in judiciary

20. Ministries and Departments of the Government

- ▶ Functioning of Ministries
- ▶ Central Secretariat
- ▶ Cabinet Secretary
- ▶ Field organizations
- ▶ Reforms needed
- ▶ International methodology

21. Panchayats

- ▶ Provisions of 73rd AA and 74th AA
- ▶ Role and functions of different tiers
- ▶ Municipal Corporations
- ▶ Municipal Councils
- ▶ Nagar Panchayats
- ▶ The steps taken towards women's empowerment
- ▶ Role of State Election commission
- ▶ Role of State Finance Commission
- ▶ Smart City Mission & Municipal Governance

22. Dispute redressal mechanisms and institutions

- ▶ What is Dispute redressal mechanism?
- ▶ Need of Dispute redressal mechanisms

- ▶ Administrative tribunal and issues
- ▶ Fast Track Courts and issues
- ▶ Gram Nyayalayas and issues
- ▶ Parivarik Mahila Lok Adalats and issues
- ▶ Family Courts and issues
- ▶ Lok Adalat and issues
- ▶ NALSA and issues
- ▶ Dispute redressal for Weaker section
- ▶ Arbitration Mechanism
- ▶ International Arbitration Centre
- ▶ Commercial Court

23. Comptroller And Auditor-General Of India

- ▶ Appointment
- ▶ Functions
- ▶ Role of CAG in good governance

24. The Governor

- ▶ Appointment, term of office, qualification, etc
- ▶ Powers
- ▶ Discretionary powers
- ▶ Ordinance making power

25. CM

- ▶ Appointment
- ▶ Powers and responsibilities
- ▶ Relationship between the Governor and the Chief Minister
- ▶ Relationship between CoM and the Chief Minister

26. The Advocate-General for the State

- ▶ Appointment
- ▶ Functions

27. State legislature

- ▶ The composition of Vidhan Sabha and Vidhan Parishad
- ▶ Qualifications of the Members of Legislature
- ▶ Powers and Functions of State Legislature
- ▶ Relationship between both the Houses
- ▶ Officers of State Legislature
- ▶ Powers, Privileges and Immunities of State Legislatures and their Members
- ▶ Legislative procedure
- ▶ Governor's assent to Bills
- ▶ Procedure in Financial Matters/Budget

GOVERNANCE

1. Need and importance of Government Policies

- ▶ Growth and development
- ▶ Human development and human capital formation
- ▶ Equality (interpersonal and interregional) and social justice
- ▶ Unity and integrity
- ▶ Trust between state and citizens

2. Effective Implementation

- ▶ What is effective implementation? Best outcomes in view of given time, resources and constraints
- ▶ Analysis of different important schemes

3. Government intervention

- ▶ Good Governance-Role of institutions, bureaucrats and other stakeholders
- ▶ Transparency and accountability

- ▶ Optimum use of resources- Right targeting, plugging leakages and wasteful expenditure, use of available knowledge, research and innovation.
- ▶ Monitoring and evaluation- Outcome budget, zero base budgeting, input-output analysis, cost-benefit analysis
- ▶ Setting up institutions and regulatory norms task forces, steering committees and review committees.

4. Development process and industry

- ▶ Difference between Growth and Development
- ▶ Main Constraints of development
- ▶ Main Stake holders in development process
- ▶ Self Help Groups
 - Meaning
 - Importance
 - Objectives
 - Institutional Structure and organization

- Funding
- ▶ Micro Finance
 - Meaning and importance
 - Objectives
 - Structure and Organization
 - Advantages
 - Micro Finance in India
- ▶ Non-Government Organizations
 - What are NGOs?
 - Difference between Non Government Organizations (NGOs) and International Non Government Organizations (INGOs)
 - United Nations Criteria for INGO and NGO
 - NGOs and development projects
- ▶ NGOs and Community development
- ▶ NGOs involved in relief and rehabilitation
- ▶ NGOs involved in disaster management
- ▶ NGOs and advocacy

5. Important aspects of governance, transparency and accountability

- ▶ Citizen centric governance
- ▶ Features of good governance
- ▶ Legislative accountability
- ▶ Administrative accountability
- ▶ Judicial accountability
- ▶ Ombudsman
- ▶ Whistleblowers concept
- ▶ Anti corruption machinery
- ▶ Role of citizens
- ▶ Role of media
- ▶ Social audit
- ▶ Systematic reforms

6. e-Governance

- ▶ Introduction
- ▶ Applications
- ▶ Models
- ▶ Successes
- ▶ Limitations
- ▶ Future prospects

7. Citizens Charters

- ▶ Citizens Charters
- ▶ Introduction
- ▶ Models

- ▶ Features
- ▶ CC in India
- ▶ Issues in CC implementation
- ▶ Reform needed

8. 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

9. Pressure groups and formal/informal associations and their role in the Polity

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

10. 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.

11. Statutory, regulatory and various quasi-judicial bodies

- ▶ SEBI
- ▶ CVC
- ▶ CBI
- ▶ Planning Commission
- ▶ NDC
- ▶ PMO
- ▶ Zonal Council
- ▶ TRAI
- ▶ IRDA
- ▶ National Human Rights Commission
- ▶ State Human Rights Commission
- ▶ Central Information Commission
- ▶ State Information Commission
- ▶ National Consumer Disputes Redressal Commission
- ▶ Tribunal
- ▶ 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
- RBI

12. Elections in India

- ▶ Salient features of the Representation of People Act, 1950
- ▶ Salient features of Representation of Peoples Act, 1951
- ▶ Electoral reforms
- ▶ Criminalization of politics
- ▶ Negative or neutral voting
- ▶ State funding of Elections
- ▶ Irregularities in polling

13. Political Parties in India

- ▶ Political parties in India
- ▶ Party reforms
- ▶ Problems in the working of parties
- ▶ Casteism and politics
- ▶ Reforms in Party system in India
- ▶ Strengthening of Anti-defection measures

14. Role of Pressure Groups

- ▶ 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

RECENT DEVELOPMENTS

1. Bills

- ▶ Representation of People (Amendment) Bill 2010
- ▶ Aadhaar (Targeted Delivery of Financial and other Subsidies, Benefits and Services) Act, 2016'
- ▶ Admiralty (Jurisdiction and Settlement of Maritime Claims) Bill, 2016
- ▶ The Anti-Hijacking Act, 2016
- ▶ Panchayats (Extension to the Scheduled Areas) Act, 1996
- ▶ Lokpal & Lokayukta (Amendment) Act, 2016
- ▶ Motor Vehicles (Amendment) Bill, 2016
- ▶ Whistleblowers Amendment Bill

2. Union & State Government

- ▶ Imposition of President Rule: An Analysis
- ▶ Frequent promulgation of Ordinance
- ▶ Provisions related to Removal of Governors
- ▶ Politicization of the post of Governor
- ▶ Relevance of Rajya Sabha
- ▶ Frequent disruption of Parliament and its impact
- ▶ Anti-Defection Law
- ▶ Issue related to Office of Profit
- ▶ Special privileges to MPs and its implication
- ▶ Freebies Politics in India

- ▶ Political Parties and RTI
- ▶ Basics of Separation of Power in India

3. Judiciary

- ▶ Issue related to appointment of judges
- ▶ Proposal for National Court of Appeal
- ▶ Concept of defamation in India
- ▶ Contempt of Court
- ▶ What are contempt proceedings?
- ▶ Public Interest Litigation
- ▶ Advocates (Amendment) Bill, 2017 Controversy
- ▶ Issue of Judicial over-reach
- ▶ National Litigation Policy
- ▶ All India Judicial Services
- ▶ Judicial reforms
- ▶ Future challenges may be faced by Indian Judiciary
- ▶ Administrative Tribunals

4. Local Government

- ▶ Nagaland Reservation in Urban bodies: Issue
- ▶ Education qualification made mandatory for contesting Local Government Elections
- ▶ Reforms needed in Municipalities in Sync with Urban development Missions
- ▶ 14th Finance Commission and Local Governments

5. Elections

- ▶ Simultaneous Elections: feasibility and benefits
- ▶ Introduction of NOTA in elections
- ▶ Bill on Right To Recall Legislators
- ▶ Benefits of recognition as a National party
- ▶ Provision of Compulsory Voting
- ▶ State funding in elections
- ▶ Corporate funding laws
- ▶ Election Commission Proposal for countering bribe-for-votes
- ▶ About Paper Trail Units
- ▶ Issues related to the working of Political Parties
- ▶ Voting rights to NRI
- ▶ Role of civil society in free and fair election
- ▶ Women voices in elections
- ▶ Law Commission Report on Electoral Reforms

6. Organisations/Bodies

- ▶ 14th Finance Commission: Analysis
- ▶ 7th Pay Commission Report and Repercussions
- ▶ AFSPA and Second ARC
- ▶ Inter-State River Water Dispute
- ▶ Role of Niti Aayog
- ▶ Significance of Public Accounts Committee
- ▶ Autonomy of CBI
- ▶ Analysis of functioning of CAG
- ▶ Right to Information
- ▶ Accountability and transparency in NGOs
- ▶ Need of Indian Skill Development Service

7. Initiatives for Transparency & Accountability

- ▶ Saving life and Good Samaritan Law
- ▶ Pro-Active Governance and 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

8. Scheme

- ▶ Pradhan Mantri Jan-Dhan Yojana (PMJDY)
- ▶ Swatchh Bharat Mission
- ▶ National Skill Development Mission
- ▶ National Food Security Act, 2013
- ▶ Sansad Adarsh Gram Yojana
- ▶ Smart City Mission
- ▶ Namami Gange

9. Reports & Policies

- ▶ Niti aayog's report on rationalization of Centrally Sponsored Schemes
- ▶ Law Commission's 268th Report on Bail Reforms
- ▶ Law Commission Report on Hate Speech
- ▶ Model Land Leasing Law prepared by NITI Aayog
- ▶ Standing Committee Report on water conservation
- ▶ Report on Working Group on Migration

10. Miscellaneous

- | | | | |
|---|--------------------------|---|--------------------------|
| ▶ Liquor ban on highways: critical analysis | <input type="checkbox"/> | ▶ Media Role and Censorship issue | <input type="checkbox"/> |
| ▶ SC Makes National Anthem Mandatory | <input type="checkbox"/> | ▶ Fundamental Duties - Awareness Campaigns is the Duty of Centr | <input type="checkbox"/> |
| ▶ National Water Framework Bill | <input type="checkbox"/> | ▶ National Anthem - Mandatory in Cinema Halls - Article 51(a) | <input type="checkbox"/> |
| ▶ Regionalism: Demand for smaller states | <input type="checkbox"/> | ▶ Prevention of Insults to National Honor Act, 1971 | <input type="checkbox"/> |
| ▶ Directly Elected Mayor | <input type="checkbox"/> | ▶ Triple Talaq Issu | <input type="checkbox"/> |
| ▶ Special category status to states: Meaning and demand | <input type="checkbox"/> | ▶ Uniform Civil Code | <input type="checkbox"/> |
| ▶ Analysis of Singur Verdict | <input type="checkbox"/> | ▶ MGNREGA: Right to Work | <input type="checkbox"/> |
| ▶ Debate on the issue of Lobbying in India | <input type="checkbox"/> | ▶ Making AADHAR Mandatory Violates Fundamental Rights | <input type="checkbox"/> |

 **Remarks**

International Relations

INDIA & NEIGHBORS

1. India – Nepal Relations

- ▶ Background of Relation
- ▶ Political
- ▶ Economic
- ▶ The Issue of Water and Hydropower Cooperation
- ▶ Social
- ▶ Psychological
- ▶ The Recent Visit of Prime Minister Narendra Modi
- ▶ Recommendations to Improve Relations

2. India and Bhutan

- ▶ Economy: A Broad Overview
- ▶ India, Bhutan and China: issues
- ▶ The Recent Landmark visit by Indian Prime Minister

3. Indo-Afghan Bilateral Relations

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

4. India-Bangladesh Relations

- ▶ Development Partnership
- ▶ India-Bangladesh Relations in line with 'Look East' policy
- ▶ Recent Boundary Agreements and their analysis

5. India-Maldives Relations

- ▶ Geostrategic Importance of Maldives
- ▶ Development Cooperation
- ▶ Security Risks

6. India-Sri Lanka Relations

- ▶ Commercial Relations
- ▶ Developmental Cooperation
- ▶ Fishermen Issue

7. India-Myanmar Relations

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

8. Indo-Pak Relations

- ▶ Major Crisis
- ▶ Water Dispute
- ▶ Current Internal Scenario
- ▶ Impact on India
- ▶ Developments in Last One Year

9. Indo-Chine Relations

- ▶ Economic Relation
- ▶ China India Water Related Issue
- ▶ "String of Pearls Strategy"
- ▶ China's Maritime Silk Route Implications for India

10. South China Sea Dispute

- ▶ Main Disputes
- ▶ Resources as a Driver of Competition

- ▶ Attempts for Resolution
- ▶ India and South China Dispute

11. Security Challenges in the Indian Ocean Region

- ▶ The Pivot to Asia – US Policy Shift
- ▶ South China Sea- Issues of Mistrust

- ▶ Piracy off the Coast of Somalia
- ▶ Neighbourhood Issues and Terrorism
- ▶ Energy Routes
- ▶ Fisheries and Livelihood Issues
- ▶ Environmental Security
- ▶ Declaration of Indian Ocean as Zone of Peace
- ▶ India and Asian Nations relations

INDIA & ASIAN NATIONS RELATIONS

1. CIS Countries of Central Asia

- ▶ India-Turkmenistan
- ▶ India-Kazakhstan
- ▶ India Tajikistan
- ▶ China And Central Asia
- ▶ International North-South Transport Corridor
- ▶ Shanghai Cooperation Organisation

2. India-Mongolia

- ▶ India-Mongolia Bilateral Cooperation
- ▶ Deal on Uranium Supply
- ▶ Visit

3. India – UAE Relations

- ▶ Political and economic relation
- ▶ Oil Economic Relation

4. India – IRAN

- ▶ Iran Nuclear Deal and India
- ▶ India Iran Relations
- ▶ US-Geopolitical and Geo-Economic Consideration in Iran

5. India – ISRAEL

- ▶ Israel and Palestine
- ▶ India – Israel Relations

6. India – Saudi Arabia

- ▶ Areas of Cooperation
- ▶ Challenges in relations

7. Asia-Pacific Region

- ▶ Zones of Activity
- ▶ Regional Groupings
- ▶ Geopolitics of Asia Pacific

8. India-South East Asia

- ▶ Steps in Indo-ASEAN Relations
- ▶ India-ASEAN Security Co-operation

9. Indo-Japan Bilateral Relationship

- ▶ Economy Centric Relationship
- ▶ Contemporary Perspective

10. India – South Korea

- ▶ India South Korea Relations
- ▶ Economic Partnership in Recent Years

11. India-Vietnam

- ▶ Economic Cooperation
- ▶ Strategic Cooperation
- ▶ Geo-political Issues concerning India-Vietnam Energy Cooperation
- ▶ China's Response
- ▶ India's Response

INDIA & ASIAN NATIONS RELATIONS

1. Indian Diaspora

- ▶ Role played by Indian Diaspora
- ▶ Issue of safety of Indians abroad

- ▶ Schemes for Welfare of Overseas Indian
- ▶ Narendra Modi and Indian Diaspora

INDIA & OTHER NATION & INSTITUTIONS

1. India and Africa

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

2. Indo-Australia Relationship

- ▶ Immigration Issue and Indian Diaspora
- ▶ Economic Relationship
- ▶ Issue of Nuclear Cooperation
- ▶ 26. India-Russia Bilateral Relationship
- ▶ Shanghai Co-operation Organization
- ▶ Warming Relationship between Pakistan and Russia

3. France

- ▶ Strategic Partnership
- ▶ Prime Minister's Recent Visit to France
- ▶ 28. Germany
- ▶ Indian-Germany Economic Relations

4. United Kingdom

- ▶ Ties in Current Context
- ▶ Scotland's Referendum
- ▶ India & BREXIT

5. India-USA Relations

- ▶ Area of Co-operation: Strategic Consultations
- ▶ Area of Co-operation : Counter terrorism and Internal Security
- ▶ Area of Co-operation : Trade and Economic

- ▶ Area of Co-operation : Energy and Climate Change
- ▶ Area of Co-operation : Science & Technology (S&T) and Space
- ▶ Area of Co-operation : People to People Ties
- ▶ Area of Co-operation : Defence Cooperation
- ▶ Intellectual Property Issues
- ▶ India and International Organisations

6. The World Trade Organization

- ▶ Representation in the WTO and Economic Groupings
- ▶ How the WTO takes Decisions
- ▶ The WTO Secretariat and Budget
- ▶ How Countries Join the WTO
- ▶ Assisting Developing and Transition Economies
- ▶ Specialized Help for Export Promotion
- ▶ The WTO's Part in Global Economic Policy-making
- ▶ Nairobi Package adopted at 10th WTO Ministerial Conference
- ▶ WTO reportsrise in protectionism

7. International Monetary Fund

- ▶ International Monetary Fund (IMF)
- ▶ India gets more Voting Rights in IMF Reforms

8. Nuclear Security Summit

- ▶ The fourth Nuclear Security Summit: 2016
- ▶ Threats of Nuclear Terrorism
- ▶ Missile Technology Control Regime (MTCR)
- ▶ Nuclear Suppliers Group (NSG)
- ▶ Recent Support for NSG Membership for India
- ▶ Why is India seeking to become a member of NSG?
- ▶ Why are certain countries opposing India's entry into NSG?
- ▶ Argument in favour for India Joining NSG

9. BRICS

- ▶ Economic Environment in BRICS Countries
- ▶ Last BRICS Summit in Goa, India
- ▶ BRICS-BIMSTEC Outreach Summit

10. BIMSTEC

- ▶ Convention on Mutual Legal Assistance in Criminal Matters

11. IBSA

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

12. SAARC

- ▶ Indo-Pak Conflict
- ▶ Problem of Resource Development

- ▶ Prospects For SAARC

13. Relevance of Non-Alignment in present India

- ▶ What is NAM?
- ▶ Relevance in present era

14. India-ASEAN Economic Cooperation

- ▶ Singapore
- ▶ Vietnam
- ▶ Indonesia
- ▶ India ASEAN FTA in Service

 *Remarks*

Economy

BASIC ECONOMY

1. Indian Economy and issues relating to planning

- ▶ Indian Economy in Pre-independence Period
- ▶ Economy on Eve of Independence
- ▶ Challenges
- ▶ Features
- ▶ Post-Independence India
- ▶ Issues
- ▶ Agriculture and its development so far
- ▶ Industry
- ▶ Services
- ▶ Phases of Economic Development in India
- ▶ Nehruvian Socialist Economy
- ▶ Economic Reforms
- ▶ Planning
- ▶ Objectives
- ▶ Technical details
- ▶ Planning History
- ▶ Analysis of each plan

2. Resource Mobilization

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

- ▶ Role of foreign investment in resource mobilization, desirability and consequences
- ▶ Multilateral agencies and resource mobilization

3. Inclusive growth and issues arising from it

- ▶ Meaning and concept of Inclusion
- ▶ India's experience
- ▶ Social sector initiatives and inclusion process
- ▶ Ground reality and working of flagship schemes
- ▶ India's growth story in this context
- ▶ Why India's growth is not inclusive?
- ▶ Rural economy based growth
- ▶ Need of Sustainable agriculture, food security and resilience for growth.
- ▶ Public distribution schemes: Way to inclusive growth.
- ▶ Financial inclusion as an instrument of inclusive growth.
- ▶ Poverty Alleviation and Employment Generation as a strategy for inclusive growth
- ▶ Social sector development as an instrument for inclusive growth.
- ▶ Public private partnership for inclusive growth
- ▶ Industrial Integration for inclusive growth
- ▶ Sectoral and regional diversification as a tool for inclusive growth.

4. Government Budgeting

- ▶ Budget terminology
- ▶ Types of budget
- ▶ Features of outcome budgeting
- ▶ Merger of Railway and General Budget

- ▶ Benefits of budgeting
- ▶ Flaws in budgeting process
- ▶ Budget analysis

5. Investment models

- ▶ Measures of Investment
- ▶ Capital and investment
- ▶ Factors affecting investment
- ▶ Classification of Investment
- ▶ FDI
- ▶ Angel Investors and Start-ups
- ▶ M&A
- ▶ Investment Models
- ▶ Role of State
- ▶ PPP (Public-Private Partnership)
- ▶ Savings and Investment Trends

6. Fiscal policy

- ▶ Fiscal Policy in India
- ▶ Important Budgetary Terms and Fiscal Concept
- ▶ Government Revenues & Spending
- ▶ Deficits
- ▶ Balance Sheet

7. Taxation

- ▶ Taxation Meaning
- ▶ Principles of Taxation
- ▶ Objectives of Taxation
- ▶ Taxation for Mobilization of Resources
- ▶ Tax System in India
- ▶ Subsidies
- ▶ Tax Reforms
- ▶ GST

8. 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

9. Financial system

- ▶ Money Market in India
- ▶ Capital Market in India
- ▶ Indian Capital Market Regulatory Framework
- ▶ Primary Market Reforms in India
- ▶ Secondary Market Reforms in India

10. Banking

- ▶ Indian Banking System
- ▶ Functions of Commercial Banks
- ▶ Challenges Faced by Commercial Banks in India
- ▶ Nationalization of Banks in India
- ▶ Banking Reforms in India
- ▶ New Bank Licence Criteria
- ▶ Small Finance Banks and Payment Banks Criteria
- ▶ Non-Banking Financial Company (NBFC)
- ▶ Terminologies/Concepts Related to Banking in India
- ▶ Financial Inclusion
- ▶ NPAs
- ▶ Bills related to Banking

11. Foreign trade & International Organisations

- ▶ International Trade
- ▶ Trade Policy
- ▶ Balance of Payments
- ▶ Foreign Capital
- ▶ Impact of Globalization on Indian Economy
- ▶ International Monetary Fund
- ▶ WTO
- ▶ World Bank Group
- ▶ AIIB and NDB

AGRICULTURE

1. Role of Agriculture in Indian Economy

2. Land resource

- ▶ Land-use
- ▶ Land capability classification
- ▶ Causes of Land Degradation
- ▶ Impact of Land Degradation

- ▶ Steps taken by GOI
- ▶ Sustainable Land Management

3. Land Reforms

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

4. Agriculture Finance

- ▶ Features of Agricultural Finance
- ▶ Criteria for Agricultural Credit
- ▶ 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

5. Agricultural Credit Institutions

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

6. Crop Insurance in India

- ▶ Historical Background
- ▶ Issues Related to Crop Insurance
- ▶ Pradhan Mantri Fasal Bima Yojana
- ▶ Comparison with Earlier Crop Insurance Schemes
- ▶ Challenges

7. 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

8. 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

9. Agricultural Revolutions in India

- ▶ Green Revolution
- ▶ White Revolution – Operation Flood
- ▶ Yellow Revolution
- ▶ Blue Revolution
- ▶ Golden Fiber Revolution: Jute

10. Food Processing

- ▶ Processed Foods Scenario with respect to Specific Sectors
- ▶ Policy Initiatives
- ▶ Infrastructure Development in Food Processing Sector
- ▶ Issues in Food Processing Sector
 - FDI Policy in Food Processing
 - Notable Trends in the Indian Food Processing Sector
 - Strategies Adopted in Budget
 - New foreign and domestic investment
 - Sector-specific government policies

INDUSTRY

1. 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

2. 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 disbursement 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

TRANSPORT

- ▶ 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
- ▶ Transport patterns in the world: Oceanic transport
- ▶ Ocean transport routes
- ▶ Inland waterways
- ▶ Main regions of inland waterways
- ▶ Railways: Factors affecting the railroads
- ▶ Distribution of railroads in the world
- ▶ Factors influencing air transport
- ▶ Pipeline Transport
- ▶ Petroleum (oil) Pipelines
- ▶ Gas Pipelines
- ▶ Transport costs and specialization

- ▶ Transport and trade in the modern era
- ▶ Transport costs and scale economies
- ▶ Falling transport costs increase trade between neighbours
- ▶ Falling transport costs lead to concentration within countries
- ▶ Negative externalities of transport
- ▶ Important issues
 - Ownership and financing
 - Pricing of Public utilities
 - Infrastructure as avenues for investment
 - Project delays-reasons and measures to overcome
 - Public Private Partnership and related issues
 - Operation and Maintenance of roads, railways, irrigation and power projects-Main problems and solutions
 - Impact of Infrastructure-Economic Impacts, impact on social development, Environmental impacts

RECENT DEVELOPMENTS

1. Finance

- ▶ Changes in Budget process in India
- ▶ Public Debt Management Cell
- ▶ IBBI and INSOLVENCY RULES
- ▶ Demonetization and its impact
- ▶ Goods and Services Tax
- ▶ Digital Payments scenario
- ▶ Task Force Releases draft Bill to establish a Financial Data Management Centre
- ▶ Task Force report on Financial Redress Agency Released
- ▶ Law Commission submits report on Income Tax related to Minors
- ▶ Consumer get free hand on paying service charge
- ▶ Monetary Policy Committee Review
- ▶ Report of Working Group on development of Corporate Bond Market in India
- ▶ Concept of municipal bonds
- ▶ Lower taxes, higher compliance: implication on economy

2. Banking

- ▶ Bank Consolidation: Pros and Cons
- ▶ Concept of willful defaulter
- ▶ Concept of bad bank
- ▶ Shadow banking
- ▶ Non Performing Assets
- ▶ Debate on RBI autonomy
- ▶ INDRADHANUSH Analysis
- ▶ MCLR regime
- ▶ Unified Payment Interface
- ▶ India's Post payment bank
- ▶ Issue of Balance Sheet Syndrome
- ▶ Differentiated Bank Licenses

3. Industry

- ▶ Standing Committee submits report on Industrial Policy
- ▶ Draft National Food Processing Policy Released
- ▶ Initiatives for Fund for start-ups
- ▶ Companies need to look beyond CSR
- ▶ Merger of telecoms
- ▶ National Company Law Tribunal

- ▶ Initiatives to support MSME sector
- ▶ Model Shop and Establishment Bill, 2016
- ▶ National Capital Goods Policy
- ▶ H1B visa rules and IT sector
- ▶ Ease of doing business initiatives in Realty sector
- ▶ Coal linkage policy
- ▶ Ministry releases Draft Labor Code on Social Security
- ▶ Analysis of Competition Commission of India

4. Agriculture

- ▶ NITI Aayog report on Agriculture
- ▶ Agricultural Index by NITI Aayog
- ▶ Defects in Procurement Policy
- ▶ Reforming trade in agriculture products
- ▶ Report on incentivising production of pulses released by Ministry of Finance
- ▶ Draft Model APMC Act, 2016 released

5. Infrastructure

- ▶ Sagarmala project
- ▶ Inland waterways in India
- ▶ Safety issues in Railways
- ▶ Draft policy for providing New Suburban Rail Systems released
- ▶ NITI Aayog releases report on the impact of social service obligations by Railways
- ▶ Indian Railway Tourism Policy
- ▶ Aviation Sector and Regional Connectivity Scheme
- ▶ Air Service Agreement
- ▶ HELP
- ▶ Ministry of Power releases guidelines on cross-border trading of electricity
- ▶ Supreme Court bans sale of vehicles not compliant with BS IV standards
- ▶ Multi-Modal Transport System

6. External sector

- ▶ Model Bilateral investment treaty
- ▶ Phasing out of FIPB
- ▶ FDI status and issues
- ▶ Permanent residency status to foreign investors
- ▶ Dispute Settlement Mechanism in WTO

- ▶ Increase in International Trade Dispute
- ▶ FTP 2015-20
- ▶ Reforms in IMF quota

7. Committees

- ▶ FSLRC - Financial Sector Legislative Reforms Commission: Analysis
- ▶ Nachiket Mor Committee Report
- ▶ P.J Nayak Committee
- ▶ Vijay Kelkar Committee on PPP
- ▶ Parthasarathi Shome committee on GAAR
- ▶ Urjit Patel Committee Report on Monetary Policy
- ▶ Mahapatra Committee (NBFC Loan Restructuring)

- ▶ Usha Thorat Committee
- ▶ Debroy Committee on Railways
- ▶ N.K. Sing Panel Report on FRBM
- ▶ Shanta Kumar Committee
- ▶ Ratan Watal Committee on Digital Payments

8. Miscellaneous

- ▶ Unemployment survey
- ▶ India's first International Arbitration Centre inaugurated.
- ▶ Ponzi scheme and Issues
- ▶ Fat tax: concept analysis
- ▶ National Student Start Up Policy

 *Remarks*

Science & Technology

BIOLOGY

1. Chemical Building Blocks of Life

2. History and Origin of Life

3. Cells

- ▶ Cell Structure
- ▶ Membranes
- ▶ Cell-Cell Interactions
- ▶ Energy and Metabolism
- ▶ Respiration
- ▶ Photosynthesis
- ▶ How Cells Divide
- ▶ Sexual Reproduction

4. Genetics

- ▶ Inheritance
- ▶ DNA, The Genetic Material
- ▶ Gene Expression
- ▶ Gene Regulation
- ▶ Mutation
- ▶ Recombinant DNA Technology

5. Classification of Living Things

- ▶ Classification and Domains of Life
- ▶ General Biology/Classification of Living Things/Viruses
- ▶ Prokaryotes
- ▶ Eukaryotes
- ▶ Protists
- ▶ Plants
- ▶ Fungi
- ▶ Animals

6. Evolution

- ▶ Evolution of Life
- ▶ Animal Evolution
- ▶ Human Evolution

7. Tissues

- ▶ Epithelial tissue
- ▶ Connective tissue
- ▶ Muscle tissue

8. 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.

9. Endocrine System

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

10. Respiration

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

11. The Transport System in Organisms

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

12. Skeletal and Muscular Systems

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

13. Reproduction

- ▶ Asexual Reproduction in Plants
- ▶ Asexual Reproduction in Animals
- ▶ Sexual Reproduction in Plants

- ▶ Sexual Reproduction in Animals
- ▶ Sexual Reproduction in Humans

14. Excretion, Osmoregulation and Thermoregulation

- ▶ Excretory products
- ▶ Excretion in plants
- ▶ Excretion in Animals
- ▶ Osmoregulation, ADH and formation of Urine in Animals
- ▶ Physiological and Behavioural Adjustments

15. Nutrition

- ▶ Classification by Source of Energy and Carbon
- ▶ Plant Nutrition
- ▶ Animal Nutrition
- ▶ Human Diet
- ▶ The Digestive System

INSTITUTIONS & POLICY

- ▶ India's policy in the field of the science and technology
- ▶ The S&T policy resolution in 1958
- ▶ S&T policy of the 1983
- ▶ S&T policy of the 2003
- ▶ S&T policy 2013
- ▶ 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

- ▶ 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

BIOTECHNOLOGY**1. Genetics and biotechnology**

- ▶ Industrial genetics
- ▶ Protoplast and cell fusion technologies
- ▶ Genetic engineering
- ▶ DNA sequencing
- ▶ Nucleic acid probes
- ▶ Genomics and proteomics
- ▶ Antisense and RNA interface

- ▶ Potential laboratory biohazards of genetic engineering
- ▶ Bioprocess/fermentation technology

2. Biological fuel generation

- ▶ Global warming and the significance of fossils fuels
- ▶ Photosynthesis: the ultimate energy source
- ▶ Biofuels from biomass

- ▶ Bioethanol from biomass
- ▶ Biodiesel
- ▶ Methane
- ▶ Hydrogen

3. 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
- ▶ Environmental sustainability and clean technology

4. Plant and Forest Biotechnology

- ▶ Plant biotechnology
- ▶ Forest biotechnology

5. Animal and Insect Biotechnology

- ▶ Genetic manipulation and transgenic animals
- ▶ Genetically engineered hormone and vaccines
- ▶ Animal organs for human patients
- ▶ Genetically modified insects

6. 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

7. Protection of biotechnological inventions

- ▶ Patent protection Trade secrets
- ▶ Plant breeders' rights

8. Recent initiatives in Health & Biotechnology

- ▶ Recent initiatives in Health & Biotechnology
- ▶ Diseases in News
- ▶ India Declared Maternal and Neonatal Tetanus, H5N1 and Yaws Free
- ▶ IPV Injection
- ▶ Mission Indradhanush
- ▶ New TB Drug Regimen
- ▶ E-Cigarettes
- ▶ Digital Biopiracy
- ▶ Kendrapara Sheep
- ▶ DNA Tagging of Convicts
- ▶ U.K. Grants Gene Editing Licence
- ▶ Genetically Modified Mosquito
- ▶ Designer Babies' OR Three Parents Babies
- ▶ U.K. Grants Gene Editing Licence
- ▶ National Biotechnology Development Strategy 2015-2020

SPACE

- ▶ Types of orbits
- ▶ Launch Vehicle
- ▶ Satellite communication in India
- ▶ INSAT Satellite application
- ▶ Remote sensing applications
- ▶ Cryogenic rockets
- ▶ Global Positioning System
- ▶ Galileo

- ▶ GLONASS
- ▶ IRNSS
- ▶ GAGAN
- ▶ Chandrayaan – I & II
- ▶ Mars Orbiter Mission
- ▶ Space Organisations
- ▶ Space race/Space junk
- ▶ Recent updates

- | | | | |
|--|--------------------------|---|--------------------------|
| ▶ South Asia Satellite: Significance | <input type="checkbox"/> | ▶ RESOURCESAT- 2A | <input type="checkbox"/> |
| ▶ Neutrino Observatory | <input type="checkbox"/> | ▶ ASTROSAT | <input type="checkbox"/> |
| ▶ Solar Mission- ADITYA | <input type="checkbox"/> | ▶ Sunspot | <input type="checkbox"/> |
| ▶ Gravitational Waves | <input type="checkbox"/> | ▶ Magnetars | <input type="checkbox"/> |
| ▶ FAST (Five-hundred-meter Aperture Spherical radio Telescope) | <input type="checkbox"/> | ▶ Neutron stars | <input type="checkbox"/> |
| ▶ Spitzer Space Telescope | <input type="checkbox"/> | ▶ Air-breathing propulsion system | <input type="checkbox"/> |
| ▶ Giant Metrewave Radio Telescope | <input type="checkbox"/> | ▶ Space Junk | <input type="checkbox"/> |
| ▶ Chandra X-ray Observatory | <input type="checkbox"/> | ▶ Graveyard Orbit | <input type="checkbox"/> |
| ▶ James Webb Space Telescope | <input type="checkbox"/> | ▶ India, NASA join hands for Astrobiology Mission | <input type="checkbox"/> |
| ▶ ARIES/Devasthal Telescope | <input type="checkbox"/> | ▶ Neutrino Observatory | <input type="checkbox"/> |
| ▶ Multi Application Solar Telescope | <input type="checkbox"/> | ▶ Indian Space Vision-2025 | <input type="checkbox"/> |
| ▶ Thirty Metre Telescope | <input type="checkbox"/> | | |

DEFENCE

- | | | | |
|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| ▶ Missile system and classification | <input type="checkbox"/> | ◦ Dhanush | <input type="checkbox"/> |
| ▶ On the basis of type | <input type="checkbox"/> | ◦ Astra | <input type="checkbox"/> |
| ▶ On the basis of launch vehicle | <input type="checkbox"/> | ◦ Prahaar | <input type="checkbox"/> |
| ▶ On the basis of Range | <input type="checkbox"/> | ▶ BrahMos Missile System | <input type="checkbox"/> |
| ▶ On the basis of propulsion system | <input type="checkbox"/> | ▶ Indian Submarines and Naval Ships | <input type="checkbox"/> |
| ▶ India's Missile System | <input type="checkbox"/> | ▶ Light Combat Aircraft | <input type="checkbox"/> |
| ◦ Agni | <input type="checkbox"/> | ▶ Unmanned Aerial Vehicle | <input type="checkbox"/> |
| ◦ Prithvi | <input type="checkbox"/> | ▶ Stealth technology | <input type="checkbox"/> |
| ◦ Trishul | <input type="checkbox"/> | ▶ Chemical Weapon | <input type="checkbox"/> |
| ◦ Nag | <input type="checkbox"/> | ▶ Biological Weapon | <input type="checkbox"/> |

NUCLEAR ENERGY

- | | | | |
|---|--------------------------|---|--------------------------|
| ▶ Types of nuclear reactions | <input type="checkbox"/> | ▶ Impact of Radiation | <input type="checkbox"/> |
| ▶ Nuclear Power Reactor | <input type="checkbox"/> | ▶ Issue of Radioactive Waste | <input type="checkbox"/> |
| ▶ N-Power Policy of India | <input type="checkbox"/> | ▶ Institutions involved in Nuclear energy Development, AERB | <input type="checkbox"/> |
| ▶ Advantages of Nuclear Energy | <input type="checkbox"/> | ▶ Safety standards in Nuclear Power plants | <input type="checkbox"/> |
| ▶ Disadvantages of Nuclear Energy | <input type="checkbox"/> | ▶ Nuclear & Radiological Disasters | <input type="checkbox"/> |
| ▶ Non-energy applications of Nuclear energy | <input type="checkbox"/> | | |

IT, ELECTRONICS & TELECOM

- | | | | |
|--------------------------------------|--------------------------|----------------------|--------------------------|
| ▶ Computers | <input type="checkbox"/> | ▶ Cathode ray | <input type="checkbox"/> |
| ▶ Generation of computers | <input type="checkbox"/> | ▶ LCD | <input type="checkbox"/> |
| ▶ Computer terminologies | <input type="checkbox"/> | ▶ LED | <input type="checkbox"/> |
| ▶ Supercomputer and its applications | <input type="checkbox"/> | ▶ Plasma Monitors | <input type="checkbox"/> |
| ▶ Information technology | <input type="checkbox"/> | ▶ OLED | <input type="checkbox"/> |
| ▶ Components of IT | <input type="checkbox"/> | ▶ Telecommunications | <input type="checkbox"/> |
| ▶ IT enabled services | <input type="checkbox"/> | ▶ Mobile generations | <input type="checkbox"/> |
| ▶ Application of IT | <input type="checkbox"/> | ▶ Smartfone | <input type="checkbox"/> |
| ▶ Display technologies | <input type="checkbox"/> | ▶ Important concepts | <input type="checkbox"/> |

- | | | | |
|----------------------------|--------------------------|-----------------------------------|--------------------------|
| ▶ Government initiatives | <input type="checkbox"/> | ▶ Bharat QR | <input type="checkbox"/> |
| ▶ Digital India Initiative | <input type="checkbox"/> | ▶ Contemporary debates | <input type="checkbox"/> |
| ▶ MeghRaj | <input type="checkbox"/> | ▶ Net Neutrality | <input type="checkbox"/> |
| ▶ Code Free for India | <input type="checkbox"/> | ▶ Internet of Things | <input type="checkbox"/> |
| ▶ E-Kranti | <input type="checkbox"/> | ▶ Big Data Initiative and Privacy | <input type="checkbox"/> |
| ▶ Bharat Net project | <input type="checkbox"/> | ▶ Cyber crime and security | <input type="checkbox"/> |

RECENT DEVELOPMENTS IN IT & TELECOM

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|-------------------------------------|--------------------------|--|--------------------------|
| ▶ Cyber Swachhta Kendra | <input type="checkbox"/> | ▶ Block Chain Technology and Bitcoins | <input type="checkbox"/> |
| ▶ BharatQR | <input type="checkbox"/> | ▶ Digital Terrestrial Television Transmission System | <input type="checkbox"/> |
| ▶ Digital Transaction Methodologies | <input type="checkbox"/> | ▶ Disaster Management Network | <input type="checkbox"/> |
| ▶ Smart Credit Cards | <input type="checkbox"/> | ▶ PARAM ISHAN | <input type="checkbox"/> |
| ▶ Bharat Net Project | <input type="checkbox"/> | ▶ Internet of Things | <input type="checkbox"/> |
| ▶ Wi-fi Technology | <input type="checkbox"/> | | |

NANO-SCIENCE & NANO TECHNOLOGIES

- | | | | |
|---|--------------------------|--|--------------------------|
| ▶ What is Nanoscience and Nanotechnology? | <input type="checkbox"/> | ▶ Sustainable energy | <input type="checkbox"/> |
| ▶ Origination of Nanoscience and Technology | <input type="checkbox"/> | ▶ Environment | <input type="checkbox"/> |
| ▶ Basics of Nanoscience | <input type="checkbox"/> | ▶ Transport | <input type="checkbox"/> |
| ▶ Nanomaterials | <input type="checkbox"/> | ▶ Space | <input type="checkbox"/> |
| ▶ Applications of nanotechnology | <input type="checkbox"/> | ▶ Agriculture | <input type="checkbox"/> |
| ▶ Nano medicine | <input type="checkbox"/> | ▶ Adverse Health and Environmental Impacts of Nanotechnology | <input type="checkbox"/> |
| ▶ Semiconductors and computing | <input type="checkbox"/> | ▶ Social and Ethical Impacts: | <input type="checkbox"/> |
| ▶ Food | <input type="checkbox"/> | ▶ Nano-science and nano-technology in India | <input type="checkbox"/> |
| ▶ Textiles | <input type="checkbox"/> | | |

ROBOTICS

- | | | | |
|---------------------------------|--------------------------|---|--------------------------|
| ▶ What is Robotics? | <input type="checkbox"/> | ▶ Advantages and Disadvantages of Robot | <input type="checkbox"/> |
| ▶ Machine vs Computer vs Robots | <input type="checkbox"/> | ▶ Applications of Robotics | <input type="checkbox"/> |
| ▶ Parts of a Robot | <input type="checkbox"/> | ▶ Industrial Sector | <input type="checkbox"/> |
| ▶ Controller | <input type="checkbox"/> | ▶ Aerospace | <input type="checkbox"/> |
| ▶ Manipulator | <input type="checkbox"/> | ▶ Healthcare Delivery | <input type="checkbox"/> |
| ▶ End Effector | <input type="checkbox"/> | ▶ Outer Space | <input type="checkbox"/> |
| ▶ Sensor | <input type="checkbox"/> | ▶ Exploration | <input type="checkbox"/> |
| ▶ Classification of Robots | <input type="checkbox"/> | ▶ Military Robots | <input type="checkbox"/> |
| ▶ Rolling Robots | <input type="checkbox"/> | ▶ Disaster Areas | <input type="checkbox"/> |
| ▶ Walking Robots | <input type="checkbox"/> | ▶ Entertainment | <input type="checkbox"/> |
| ▶ Autonomous Robots | <input type="checkbox"/> | ▶ Agriculture | <input type="checkbox"/> |
| ▶ Artificial Intelligence | <input type="checkbox"/> | ▶ Domestic work | <input type="checkbox"/> |

 *Remarks*

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Ecology & Environment

ECOLOGY & BIODIVERSITY

1. 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
 - Ecotones
 - 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

2. Ecosystem and its dynamics

- ▶ 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
- ▶ Organic Farming

3. Biogeochemical Cycles

- ▶ Parts of a Bio Geochemical Cycle
- ▶ Types of Biogeochemical Cycle
 - Carbon Cycle
 - Nitrogen Cycle
 - Phosphorus Cycle
 - Sulphur Cycle

4. Biomes: Forest, Grassland, Mountain, and Desert Ecosystems

- ▶ Biome
- ▶ Grasslands
- ▶ Tundra
- ▶ Deserts
- ▶ Thar desert
- ▶ Mountain biome

5. Aquatic Life Zones: Ocean, Rivers, Lakes, and Wetlands

- ▶ Aquatic ecosystems
- ▶ Basic facts about the ocean
- ▶ Importance of the ocean
- ▶ Zones of the ocean

- Marine life
- ▶ Coral reefs
- ▶ Coral reefs in India
- ▶ Conserving coral reefs
- ▶ Mangroves
- ▶ Mangroves in India
- ▶ Freshwater in India
- ▶ Importance of lakes
- ▶ National Lake Conservation Plan
- ▶ Wetlands and their importance
- ▶ Ramsar Convention
- ▶ Ramsar Sites
- ▶ Montreux Record
- ▶ Extent and distribution of wetlands in India
- ▶ Conserving the wetlands of India

6. Biodiversity Basics

- ▶ Biodiversity
- ▶ Important kinds of biodiversity
- ▶ Degree of diversity in an ecosystem
 - Endemic species
- ▶ Keystone species
- ▶ Indicator species
- ▶ Invasive species
- ▶ Allopatric and sympatric speciation
- ▶ Bioinformatics
 - Biodiversity distribution
- ▶ Megadivers Countries
- ▶ Uses and values of biodiversity
- ▶ State of global biodiversity
- ▶ Threats to biodiversity
- ▶ Biodiversity Hotspots
- ▶ Eco-regions
- ▶ Role of traditional knowledge in biodiversity
- ▶ Biopiracy
- ▶ Extinction of species
- ▶ Mass extinction
- ▶ IUCN's classification scheme
- ▶ IUCN Red-List of Threatened Species
- ▶ Level of biodiversity in India
- ▶ Biogeographic classification of India

7. Biodiversity Conservation

- ▶ Ex-situ and in-situ conservation
- ▶ Seed banks
- ▶ Zoos in biodiversity conservation

- ▶ Botanical gardens
- ▶ Protected areas
- ▶ State of protected areas in the world
- ▶ UNESCO Man and the Biosphere Program (MAB)
- ▶ Characteristics of biosphere reserves
 - International agreements for biodiversity conservation
- ▶ Convention on Biological Diversity
- ▶ Cartagena Protocol
- ▶ Nagoya Protocol
- ▶ Aichi Biodiversity Targets
 - Important Coastal and Marine Biodiversity Areas of India
- ▶ Important Bird Areas (IBAs) of India
- ▶ Global Tiger Initiative
- ▶ Project Tiger
- ▶ Project Elephant
- ▶ Indian Rhino Vision
- ▶ Recovery Programme for Critically Endangered Species
 - Use of indigenous knowledge for conserving biodiversity
 - Seed village

8. Effect of Human Activities on Environment

- ▶ 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

9. Water Resource degradation

- ▶ Water Cycle (Hydrological Cycle)
- ▶ Availability and Quality Aspects (groundwater depletion)
- ▶ Water-borne and Water-induced Diseases
- ▶ Fluoride Problem in Drinking Water
- ▶ Arsenic Problem in Drinking Water

10. Minerals & Environmental Degradation

- ▶ Mining and Environment
- ▶ Sensitivity of Select Ecosystems to Mining

- ▶ Impact of Mining
- ▶ Indirect Impact of Mining
- ▶ International Laws on Mining
- ▶ Main Act or Statute to regulate the impact of Indian Mining Sector
- ▶ Sustainable Mining

11. Deforestation

- ▶ Causes of Deforestation
- ▶ Implications of Deforestation for Climate Change
- ▶ Consequences of Deforestation on the Wildlife of India
- ▶ Impact of Deforestation on Indian Monsoon
- ▶ Impact of Deforestation on People
- ▶ Deforestation Leads to Water and Soil Resources Loss and Flooding
- ▶ Economical Impacts
- ▶ Strategies for Reducing Deforestation
- ▶ Government Programmes for Conservation of Forests
- ▶ Legislations for Conservation of Forests using People Participation
- ▶ Steps for Improving People Participation in Forest Resource Management
- ▶ Use of Local Traditional Methods

12. Waste Management

- ▶ Solid Waste
- ▶ Hazardous Waste
- ▶ E-Waste
- ▶ Bio Medical Waste
- ▶ Plastic Waste
- ▶ Methods for Waste Management
- ▶ Effects of Poor Waste Disposal
- ▶ Landfill

13. Sustainable Development

- ▶ Principles of sustainability
- ▶ Measurement of Sustainability or Sustainable Ethics or Equitable Utilisation of Natural Resource
- ▶ Sustainable Lifestyle (Role of an individual in sustainable, development)
- ▶ Challenges to Sustainable Development
- ▶ International Efforts to Achieve Sustainability

14. Environmental Pollution

- ▶ Air Pollution

- ▶ Sources of Air Pollution
- ▶ Effects of Air Pollution
- ▶ Classification of Air Pollutant
- ▶ Control Measures of Air Pollution
- ▶ Air Pollution Disasters
- ▶ Long Range Transport of Gaseous Air Pollutants
- ▶ National Ambient Air Quality Standards
- ▶ Water Pollution
- ▶ Sources of Water Pollution
- ▶ Types of Water Pollutants
- ▶ Effects of Water Pollution
- ▶ Water Quality Standards
- ▶ Control of Water Pollution
- ▶ Thermal Pollution
- ▶ Sources of Thermal Pollution
- ▶ Effects of Thermal Pollution
- ▶ Control of Thermal Pollution
- ▶ Soil Pollution or Land Degradation
- ▶ Sources of Soil Pollution
- ▶ Effects of Soil Pollution
- ▶ Control Measures
- ▶ Noise Pollution
- ▶ Air-borne Diseases
- ▶ Toxic Substances: Toxicant, Toxicity and Toxicology
- ▶ Factors affecting toxicity
- ▶ Carcinogens

15. Solid Waste Management

- ▶ Sources of Solid Waste
- ▶ Effect of Solid Waste
- ▶ Control Measures of Solid Waste
- ▶ Solid Waste Management Rules
- ▶ Hazardous Waste Management (HWM)

16. Coastal Ecosystem Management

- ▶ Mangroves
- ▶ Salient features of Mangroves
- ▶ Importance of Mangroves
- ▶ Mangroves in India
- ▶ Mangroves under threats
- ▶ Legal and Regulatory Approaches for Protection
- ▶ Estuaries
- ▶ Importance of estuaries
- ▶ Threats to estuaries

- ▶ Coral Reefs
- ▶ Geographical Conditions Required
- ▶ Uses of coral reefs
- ▶ Conservation of coral reef
- ▶ Steps for Coastal Ecosystem Management

17. Recent developments

- ▶ Air Pollution
- ▶ Report on Air Pollution
- ▶ Bharat Stage Emission Standards
- ▶ Polluters Pay Model
- ▶ Household Air Pollution
- ▶ Open Waste Burning and its Impact
- ▶ Graded Response Action Plan on Pollution
- ▶ UN Sets Limits on Global Airline Emissions
- ▶ Waste Management
- ▶ Biodegradable Plastics
- ▶ Green Train Corridors
- ▶ Oil Spill
- ▶ Solid Waste Management-Buffer Zone
- ▶ Other News
- ▶ Report of Parliamentary Committee on Forest Fires
- ▶ Urban Forestry Scheme
- ▶ Draft Notification to Regulate Pet Shops
- ▶ Ban on Import of Animal Skin
- ▶ River linking Project and Impact on Environment
- ▶ Algal Bloom Issue
- ▶ Illegal Salt Mining and its Impact
- ▶ India's Wetland Report, 2016
- ▶ Deep Sea Mining
- ▶ Mass Coral Bleaching
- ▶ Ganga River Pollution

18. Environmental Impact Assessment

- ▶ Government Body which Executes EIA
- ▶ Environmental Effects Analysed under EIA
- ▶ Process of EIA
- ▶ EIA Ruling 1984

19. Environmental Laws

- ▶ Environmental Laws: Provisions in the Indian Constitution towards Environmental Protection
- ▶ Salient Features of Air (Prevention and Control of Pollution) Act,1981*
- ▶ Salient Features of Water (Prevention and Control of Pollution) Act, 1974

- ▶ Salient features of Forest Conservation Act, 1980
- ▶ Salient Features of Wildlife Protection Act,1972
- ▶ Salient Features of Environment (Protection) Act,1986
- ▶ Role of Government in Environmental Protection

20. Environment related Institutions and Organizations

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

21. Schemes

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

22. International Environmental Governance

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

23. Basics of Climate change

- ▶ Green House Effect and Global Warming
- ▶ Global Climate Change: International Efforts to Control Global Warming or Global Climate Change
- ▶ Ozone Layer Depletion or Ozone Hole
- ▶ Acid Rain
- ▶ El Nino
- ▶ La Nina

24. Urbanization and climate

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

25. 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

26. Global Warming & Health

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

27. Recent developments

- ▶ Carbon Neutrality Concept
- ▶ Climate Change Indicators: WMO report
- ▶ IPCC 5th Assessment Report
- ▶ Paris Agreement
- ▶ Marrakech Climate Change Conference
- ▶ International Solar Alliance (ISA)
- ▶ Kyoto Protocol (2nd Commitment 2013-20)
- ▶ Kigali Agreement
- ▶ Climate Change Performance Index

RECENT DEVELOPMENTS**1. Wildlife**

- ▶ Man-Animal Conflicts in India
- ▶ Poaching activities in India
- ▶ Controlling wildlife crimes using sniffer dogs
- ▶ Draft on animal cruelty
- ▶ Formation of Tiger Reserves: Critical Analysis
- ▶ International treaties for wildlife conservation
- ▶ Use of drones for wildlife conservation

2. Combating Pollution

- ▶ Indoor Air Pollution and its impact
- ▶ Impact of Particulate Matter
- ▶ Smog and its impact
- ▶ Plastic Pollution
- ▶ Light Pollution
- ▶ Oil Spill
- ▶ Solid Waste Management
- ▶ E-waste Management Rules 2016
- ▶ Groundwater contamination
- ▶ Bharat Stage Norm
- ▶ What is Polluters Pay Model?

3. Climate Change

- ▶ Paris Agreement
- ▶ Marrakech Climate Change Conference
- ▶ Kigali Agreement
- ▶ Kyoto Protocol (2nd Commitment)
- ▶ International Solar Alliance
- ▶ Programmes and Policies Initiated for Mitigating Climate Change
- ▶ International Collaboration for Mitigating Climate Change
- ▶ Carbon Neutrality Concept
- ▶ Concept of Green Bond
- ▶ Green Climate Fund
- ▶ Carbon Tax Feasibility in India
- ▶ Concept of Green Building
- ▶ Climate Change and Cities
- ▶ Ethical issue involved in climate change
- ▶ Climate change and its impact on Health

4. Renewable Energy

- ▶ National Solar Mission
- ▶ Status of Hydro Power energy in India

- ▶ Status of Wind Energy in India
- ▶ Green Transportation

5. Initiatives for Environmental Conservation

- ▶ Ganga River Pollution
- ▶ Compensatory Afforestation Fund Act
- ▶ Draft National Wildlife Action Plan
- ▶ Draft Wetland Management Rules
- ▶ Initiatives to enhance green cover
- ▶ Policy on Promotion of City Compost
- ▶ Living status to Rivers
- ▶ National Hydrology Project

6. Environmental Institutions

- ▶ Pollution Control Board: Analysis
- ▶ National Green Tribunal: Analysis
- ▶ Forest Survey of India
- ▶ Genetic Engineering Appraisal Committee
- ▶ Traditional Knowledge Digital Library
- ▶ T S R Subramanian Panel Report

7. Miscellaneous Issues

- ▶ Algal bloom Issue
- ▶ Melting of Antarctica and its impact
- ▶ River linking project and its impact
- ▶ Public participation for environmental conservation

 *Remarks*

Internal Security

1. Internal Security Challenges

- ▶ Internal Security Challenges
- ▶ Social Diversity as Issues of Security Threat
- ▶ Challenges from within
- ▶ Neighbours as Issue of Security Threat
- ▶ 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

2. Terrorism Threat to India

- ▶ Terrorism Threat to India
- ▶ Changing face of Terrorism
- ▶ Terror Threats Faced by India
- ▶ Broader Framework to Deal with Terrorism
- ▶ Drawbacks in Intelligence Infrastructure

3. Organized Crime

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

4. Linkage between Development and Spread of Extremism

- ▶ Stated Purpose of the Naxal Movement
- ▶ Why naxalism got huge support from common man?
- ▶ Why naxalism is biggest threat to internal security?

5. Insurgency in North-East

- ▶ Issues & Conflicts
- ▶ Assam Insurgency

6. Security Challenges in Border Areas

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

7. Basics of Cyber Security

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

8. Cyber Warfare

- ▶ Factors Contributing/Aggravating Rise of Cyber Attack
- ▶ Recent Initiatives for Tackling Cyber Warfare

9. Social Media and Internal Security Threat

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

10. Money Laundering

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

11. Black Money in India

- ▶ Parallel Economy in India
- ▶ What are the various measures taken by Government to curb Black Money?
- ▶ Impact of demonetisation on black money
- ▶ Criticisms

12. Police Reforms in India

- ▶ The Organisational 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

13. 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

 *Remarks*

Ethics, Integrity & Aptitude

1. Ethics Basic Introduction

- ▶ Dimensions of Ethics
- ▶ Essence of Ethics
- ▶ Approaches of Ethical Study as Indian Perspective and Western Perspective
- ▶ Basic concept of ethics morality and value
- ▶ Ethics in public life
- ▶ Ethics in Economic Life
- ▶ Freedom and Discipline
- ▶ Duties and Rights
- ▶ Virtue Ethics
- ▶ Consequences of Ethics in Human Actions
- ▶ Values and Ethics in Government: Legislature, Executive and judiciary
- ▶ Contribution of Family in Value Education
- ▶ Contribution of Society in Inculcating Values
- ▶ Role of Educational Institutions in Inculcating Values

2. Human Values

- ▶ Human value & Socialization
- ▶ Individual Personality and Value
- ▶ Values and Skill
- ▶ Fundamental and Instrumental Values
- ▶ Democratic values
- ▶ Role of ethical value in governance and society
- ▶ Significance of value in civil services
- ▶ Aesthetic values
- ▶ Values in work life and professional ethics

3. Aptitude and foundational values of civil services

- ▶ Essential Aptitude for civil servants
- ▶ Foundational Values of Civil Services
- ▶ Neutrality

- ▶ Anonymity
- ▶ Civil Services Accountability
- ▶ Integrity
- ▶ Humility
- ▶ Adaptability
- ▶ Magnanimity
- ▶ Perseverance
- ▶ Impartiality and Non-Partisanship
- ▶ Tolerance and compassion for the weaker section
- ▶ Contribution to society

4. India & World Thinkers

- ▶ **Indian Thinkers**
 - Mahatama Gandhi
 - Dr. S. Radhakrishnan
 - Rabindranath Tagore
 - Swami Dayanand Saraswati
 - Mahadeva Govinda Ranade
 - Sri Aurobindo
 - Swami Vivekananda
 - Sardar Patel
 - Buddha Bhim Rao Ambedkar
 - Raja Ram Mohan Roy
 - Chhatrapati Shahu Maharaj
 - Mother Teresa
 - Amitabha Chowdhury
 - Aruna Roy
 - T. N. Seshan
 - E. Sreedharan
- ▶ **Administrative Thinkers**
 - Max Weber
 - Elton Mayo
 - Peter Drucker
 - Chester Barnard
 - Mary Parker Follet

► World Thinkers

- Plato
- Aristotle
- Socrates
- Jeremy Bentham
- JS Mill
- Thomas Hobbes
- John Locke
- Jean Jacques Rousseau
- John Rawls
- Immanuel Kant
- Carol Gilligan
- Jean Paul Sartre
- Georg Wilhelm Friedrich Hegel
- Confucius
- René Descartes
- Karl Marx
- Adam Smith
- Thomas Aquinas
- David Hume
- Democritus
- Galileo
- Friedrich Nietzsche
- Montesquieu
- Voltaire
- Thomas Jefferson

► Indian & World Leaders

- Benjamin Franklin
- Martin Luther King
- Dalai Lama
- Nelson Mandela
- Mahatma Gandhi
- Siddhartha Gautama
- Aung San Suu Kyi
- Swami Vivekanand
- Albert Einstein
- Abraham Lincoln
- Mother Teresa
- J L Nehru
- Lee Kuan Yew
- Henry Ford
- Abdul Kalam
- Muhammad Yunus
- Wangari Maathai
- Kofi Annan
- Lech Walesa
- Desmond Tutu

- Isaac Newton
- Elie Wiesel
- King Ashoka
- Sun Yat Sen

5. Attitude

- Components of Attitude
 - Affective component
 - Cognitive component
 - Behavioral component
- Functions of Attitude
 - Adjustive Function
 - Ego-Defensive Function
 - Value-Expressive Function
 - Knowledge Function
 - Attitude Formation Model
 - Impact of Beliefs and Values
 - Group Influences
 - Social Influence
 - Persuasion Tactics
 - Tools of Persuasion
 - Moral Attitude formation
 - Political Attitude formation

6. Emotional Intelligence

- Theories Associated with Emotional Intelligence
- Can Emotional Intelligence be Developed?
- Components of Emotional Competencies
 - The Self-Awareness Cluster: Understanding Feelings and Accurate Self-Assessment
 - The Self-Management Cluster: Managing Internal States, Impulses, and Resources
 - The Social Awareness Cluster: Reading People and Groups Accurately
 - The Relationship Management Cluster: Inducing Desirable Responses in Others
- Importance of Emotional Intelligence at Workplace
- Importance of Emotional Intelligence in Civil Services

7. Values & Ethics in Public Administration

- Ethical Concerns in Public Institution
- Ethical Concerns in Private Institutions

- ▶ Ethical Dilemmas in Public and Private Institutions
- ▶ Laws, Rules and Regulations as Source of Ethical Guidance
- ▶ Accountability and Ethical Governance Strengthening of Ethical and Moral Values in Governance
- ▶ Moral Judgments in International Relations
- ▶ Ethical Relation in Funding
- ▶ International Relations and concept of Moral Responsibility
- ▶ Ethics in working of international organizations
- ▶ What is Corporate Governance?
- ▶ Models of Corporate Social Responsibility
- ▶ Steps taken by World Bank for Good Corporate Governance
- ▶ Norms for Corporate Government in India
- ▶ Concept of business ethics

8. Probity in Governance

- ▶ Concept of Public Service
- ▶ Philosophical basis of Governance and Probity
- ▶ Information Sharing, Transparency and Right to Information
- ▶ Flaws in RTI and recommendations for improvement
- ▶ Importance of vigilant citizens
- ▶ Information sharing and participation

- ▶ Importance of Code of ethics
- ▶ Code of Ethics in Professions
- ▶ Code of Conduct for Ministers; for Legislators; for Civil Servants; for Regulators and for the Judiciary
- ▶ Components of a Citizen Charter
- ▶ Steps in formulation of a Citizen's Charter
- ▶ Concept of Work Culture
- ▶ The Indian Approach to Work
- ▶ Methods of improving Work Culture
- ▶ Quality of Service Delivery
- ▶ Utilisation of Public Funds
- ▶ Problems in Fund Release and Utilization
- ▶ Parliamentary Control on Expenditure
- ▶ Corruption in India: extent, dimension, and response
- ▶ Corruption as a social evil
- ▶ Probity in public life Corrupt practice among civil servants and official misconduct
- ▶ Exposing corruption: Civil Society initiatives and role of Whistleblower Act
- ▶ Tackling corruption: Role of government and institutions of governance
- ▶ Controlling corruption: Various approaches and efficacy

APPLIED ETHICS

1. Euthanasia Issue

- ▶ Social and ethical angle
- ▶ Different arguments related to Euthanasia
- ▶ Conclusion

2. Surrogacy

- ▶ Case study
- ▶ Issues
- ▶ Ethical Issues
- ▶ Concept of ethical surrogacy
- ▶ Conclusion

3. Ethics & Sports

- ▶ Importance of sports

- ▶ Ethical Issue: Need for sportsmanship
- ▶ Ethical Issue: Doping
- ▶ Ethical Issue: Discrimination and Sexual Harassment
- ▶ Ethical Issue: Sports as a Business
- ▶ Steps needed

4. Media Ethics

- ▶ Role of Media
- ▶ Ethical Issues faced by Reporters
- ▶ Trial by Media
- ▶ Media Prejudice
- ▶ Ethical Dilemma faced by Photo Journalists
- ▶ Digital Media Ethics
- ▶ Paid News

5. Business Ethics

- ▶ Principles of Business Ethics
- ▶ Dimensions related to Business Ethics in Organisation
- ▶ Business Ethics and Corporate Governance
- ▶ Journey from Philanthropy to Corporate Social Responsibility
- ▶ Issues related to Corporate Social Responsibility
- ▶ Issues in implementation of Business Ethics

6. Ethics Related to Economic Sanctions

- ▶ Why Economic Sanctions placed?
- ▶ Ethics in Economic Sanctions
- ▶ Conclusion

7. Refugees & Ethics

- ▶ Why Migration occurs?
- ▶ Case study of Syria
- ▶ Dilemmas related to Refugee crisis
- ▶ Steps needed

8. Ethical Dilemmas of Globalization

- ▶ What is Globalisation
- ▶ Free trade in Globalised world
- ▶ Issues with Newly developed trade patterns
- ▶ Criticism against global regime
- ▶ Way forward

9. Ethics of War

- ▶ Ethics and War theories
- ▶ Evils of war

10. Environmental Ethics

- ▶ Linkage between Ethics and Environment
- ▶ Theories related to Environmental ethics
- ▶ Role of individual

11. Ethical Issues in Biotechnology

- ▶ Issues related to Stem Cell
- ▶ Issues related to cloning
- ▶ Issues related to designer babies

12. Animal Ethics

- ▶ Introduction
- ▶ Issues of conducting research on animals
- ▶ Issue of keeping animals as pets
- ▶ Issue of Cruelty against animals
- ▶ Conclusion

13. Food Adulteration and Ethics

- ▶ Ethical dimension
- ▶ Ethical issue related to food additive

14. Abortion: Ethical or Unethical

- ▶ Law of abortion in India
- ▶ Recent Supreme Court verdict
- ▶ Ethical Issue: Health of Women vs. fetus
- ▶ Justification for abortion
- ▶ Argument against abortion
- ▶ Abortion and women rights
- ▶ Abortion and father rights

15. Honour Killing

- ▶ Honour killing is unethical
- ▶ Role of khap pachayat

16. Marital Rape

- ▶ Why Marital Rape should not be criminalized?
- ▶ Why Marital Rape should be criminalized?
- ▶ What are the hurdles?

17. Ethical Issue Involved in Child Labour

- ▶ Rights of children
- ▶ Child labour and company
- ▶ Solution
- ▶ Role of consumer

18. Ethical Issue Involved in Treating Juvenile as Adult

- ▶ Juvenile justice system
- ▶ Negative implications

19. Ethics and Old Age

- ▶ Ethical issues
- ▶ Issues faced
- ▶ Importance of autonomy

20. Ethics in Public and Private Relationships

- ▶ Ethical values in Private relationships
- ▶ Ethical principles in Public relationships
- ▶ Linkage between Private relationships and Public relationships

 *Remarks*