

SHAKTI INSTITUTE INDORE



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**GIRIRAJ TOWER,
BHAWARKUA SQUARE,
SCHEME 54 - VIJAY NAGAR
INDORE,**

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HISTORY

ANCIENT HISTORY

1. Pre Historic Cultures In India

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

2. Pastoral and Farming Communities

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

3. Indus Valley Civilization

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

4. Vedic Society

- D Features of Aryan Culture
-

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

5. Pre Mauryan Period

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

6. The Mauryan Empire

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

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

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

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

8. Growth of Jainism and Buddhism

- D Jainism
- D Buddhism

9. Imperial Guptas

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

10. Harshavardana

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

11. The Southern Dynasties

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

MEDIEVAL INDIA

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

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

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

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

3. Struggle for Empire in North India

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

4. The Establishment of the North Indian Empire

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

5. Consolidation and Expansion of the Empire - Akbar

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

6. State and Government under Akbar

- D Akbar's Concept of Suzerainty
- D Structure of Government, Central and Provincial - the Vikalat, the Central Ministries, Provincial
- D Government, District and Local Government

- D The Working of Government - the Ruler, Land-Revenue System, the Dahsala System, the Mansabdari
o System and the Army

7. Akbar's Religious Views

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

8. The Deccan and the Mughals (Upto 1657)

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

9. Foreign Policy of the Mughals

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

10. India in the First Half of the Seventeenth Century

- D Jahangir's Accession - his Early Difficulties
- D Territorial Consolidation and Expansion of the Empire - Mewar, East India and Kangra
- D Nur Jahan, and the Nur Jahan 'Junta'
- D The Rebellions of Shah Jahan, and the coup de main of Mahabat Khan
- D Jahangir as a Ruler

- D State and Religion in the First Half of the Seventeenth Century
- D Shah Jahan - Consolidation and Expansion of the Empire
- D Evolution of the Mughal Ruling Class and the Mansabdari System

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

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

12. Climax and Crisis of the Mughal Empire the Marathas and the Deccan

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

13. Society-Structure and Growth

- D Rural Society
- D Towns and Town Life
- D Artisans and Master-Craftsmen
- D Women
- D Servants and Slaves
- D Standard of Living
- D The Ruling Classes - Nobility, Rural Gentry
- D The Middle Strata
- D The Commercial Classes

14. Economic Life-Patterns and Prospects

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

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

15. Religion, Fine Arts, Science and Technology

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

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

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

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

17. The Maratha Bid for Supremacy

- D The Marathas and their Policy of Expansion
- D The Marathas and Nizam-ul-Mulk
- D The Maratha Advance into Gujarat and Malwa
- D The Maratha Advance into Doab and Punjab:
- D First Phase (1741-52); Second Phase (1752-61);
- D Third Battle of Panipat

MODERN HISTORY

1. Scenario before 1857

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

2. Revolt of 1857

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

3. The struggle for Swaraj

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

4. Intimation of freedom

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

5. Towards achievement of freedom

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

6. Partition of India

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

7. During the freedom struggle

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

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

POST INDEPENDENCE INDIA

1. Re-organisation of states

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

2. Linguistic Regionalism In India

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

3. Tribal Issue And Policy Consolidation

- D Issues & Present Status
- D Policy consolidation

4. Issue Of Women And Evolution Of Women Movement

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

5. Problem Of Caste And Social Consolidation

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

6. Communalism & Social Consolidation

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

7. Issue Of Linguistic Minorities

- D Operational Inefficiency
- D Government initiatives

8. Overview Of Economic Development Since Independence

- D Planning in India

9. Agriculture

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

10. Industry

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

11. New Economic Policy

- D Impact of New Economic Policy

12. Post Independence Policy Of Science And Technology

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

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

WORLD HISTORY

1. Beginning of Modern Age

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

2. French Revolution

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

3. Nationalism in Europe

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

4. Colonialism and Imperialism

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

5. Emergence of USA

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

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

6. World War-I

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

7. Russian Revolution

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

8. Inter-War Years (1919 To 1939)

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

9. World War- II

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

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10. Development In Middle East

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

11. Cold War

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

12. Post Cold-War World

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

13. Communism, Socialism and Capitalism

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

INDIAN CULTURE**1. Visual Art**

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

2. Architecture in Ancient India

- D Harappan Period
- D Mauryan Architecture
- D Post-Mauryan Period
- D Gupta Period
- D Temples of Khajuraho
- D Temples of Odisha
- D Temples of Gwalior
- D Temples of Gujarat
- D Temples of Rajasthan
- D Temples of Bengal
- D Temples of Assam
- D Temples of Himachal Pradesh
- D Temples of Jammu and Kashmir
- D Pallava Period
- D Chola Period
- D Pandya Temples
- D Vijaynagar Period
- D NayakaTemples

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

3. Indo-Islamic Architecture

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

4. Modern Architecture

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

5. Indian Paintings

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

6. Pottery Tradition in India

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

7. Music in India

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

8. Dances in India

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

9. Martial Arts in India

- D Genesis of Martial Arts
- D Forms of Traditional Martial Arts

10. Indian Theatre

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

11. Indian Puppetry

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

12. Indian Cinema

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

13. Religions in India

- D Pre-Vedic Religion
- D Hinduism

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

14. Bhakti & Sufi Movements

- D Bhakti Movement
- D Vaishnava Acharayas:Metaphysical Foundation
- D Other Saints of Bhakti Movement
- D Maharashtra Dharma
- D Sufism

15. Languages & Literature in India

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

16. Miscellaneous Topics

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

GEOGRAPHY

PHYSICAL GEOGRAPHY

1. Geomorphology

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

D Geology

- o Minerals
 - o 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
 - o Rocks (Aggregate of Minerals)
 - Petrology
 - Rocks & landforms
 - Rocks & Soils
 - 3 Family of Rocks
 - a Igneous
 - a Sedimentary
 - a Metamorphic
 - Rock Cycle
- D Earthquakes**
- o Waves: P,S, Body , Surface ,
 - o Shadow Zone
 - o Types of Earthquakes
 - o Effects
 - o Frequency
- Locating an Epicentre
- D Volcano**
- o Types
 - Shield
 - Composite
 - Caldera
 - Flood Basalt

- | | | | |
|--|--------------------------|---|--------------------------|
| Mid Ocean Ridge | <input type="checkbox"/> | a Major Plate | <input type="checkbox"/> |
| o Landforms (intrusive) | <input type="checkbox"/> | a Minor Plates | <input type="checkbox"/> |
| Batholiths | <input type="checkbox"/> | Plate Boundaries | <input type="checkbox"/> |
| Lacoliths | <input type="checkbox"/> | a Divergent | <input type="checkbox"/> |
| Lapoliths | <input type="checkbox"/> | a Convergent | <input type="checkbox"/> |
| Phacoliths | <input type="checkbox"/> | a Transform | <input type="checkbox"/> |
| Sills | <input type="checkbox"/> | Rates of Plate Movements | <input type="checkbox"/> |
| Dykes | <input type="checkbox"/> | Force of plate movements | <input type="checkbox"/> |
| D Geomorphic Processes | <input type="checkbox"/> | Indian Plate | <input type="checkbox"/> |
| o Earth's Surface | <input type="checkbox"/> | a Movement from 71mnyrs ago till Today | <input type="checkbox"/> |
| Exogenic Forces | <input type="checkbox"/> | D Landforms and their Evolution | <input type="checkbox"/> |
| Endogenic Forces | <input type="checkbox"/> | o Causes | <input type="checkbox"/> |
| Gradation , Degradation & Agradation | <input type="checkbox"/> | Geomorphic Processes | <input type="checkbox"/> |
| o Geomorphic Process | <input type="checkbox"/> | Agents | <input type="checkbox"/> |
| Endogenic Process | <input type="checkbox"/> | o Geomorphic Agents | <input type="checkbox"/> |
| a Diastrophism | <input type="checkbox"/> | Erosional or Destructional | <input type="checkbox"/> |
| ♦ Orogenic | <input type="checkbox"/> | Depositional or Constructional | <input type="checkbox"/> |
| ♦ Epierogenic | <input type="checkbox"/> | o Agents and their Impacts | <input type="checkbox"/> |
| ♦ Earthquakes | <input type="checkbox"/> | Wind , Running Water , Ground Water , Glaciers , Waves & Currents | <input type="checkbox"/> |
| ♦ Plate movements | <input type="checkbox"/> | o Winds | <input type="checkbox"/> |
| a Volcanism | <input type="checkbox"/> | One of the Two dominant agents in Hot deserts | <input type="checkbox"/> |
| Exogenic Forces | <input type="checkbox"/> | Cause – Deflation Abrasion Impact | <input type="checkbox"/> |
| a Denudation Processes | <input type="checkbox"/> | Erosional landforms | <input type="checkbox"/> |
| ♦ Weathering | <input type="checkbox"/> | a Pediments and Pedi plains | <input type="checkbox"/> |
| ♦ Mass movements | <input type="checkbox"/> | a Playas | <input type="checkbox"/> |
| ♦ Erosion Transportation & Deposition | <input type="checkbox"/> | a Deflation Hollows and Caves | <input type="checkbox"/> |
| D Distribution of Continents & Oceans | <input type="checkbox"/> | a Mushroom , Table & Pedestal Rocks | <input type="checkbox"/> |
| o Theories | <input type="checkbox"/> | Depositional Landforms | <input type="checkbox"/> |
| Continental Drift Theory | <input type="checkbox"/> | a Barchans | <input type="checkbox"/> |
| a Alfred Wegner 1912 | <input type="checkbox"/> | a Seif | <input type="checkbox"/> |
| a Pangea , Panthalasa | <input type="checkbox"/> | a Parabolic | <input type="checkbox"/> |
| a Laurasia , Gondwanaland | <input type="checkbox"/> | a Transverse | <input type="checkbox"/> |
| Evidence in support of Continental Drift Theory | <input type="checkbox"/> | a Longitudinal | <input type="checkbox"/> |
| a Jigsaw Fit | <input type="checkbox"/> | o Running Water | <input type="checkbox"/> |
| a Rocks of Same age across oceans | <input type="checkbox"/> | Humid Regions | <input type="checkbox"/> |
| a Tillite | <input type="checkbox"/> | 2 Components | <input type="checkbox"/> |
| a Placer Deposits | <input type="checkbox"/> | a Overland Flow – Sheet | <input type="checkbox"/> |
| a Distribution of Fossils | <input type="checkbox"/> | a Linear Flow – Stremms | <input type="checkbox"/> |
| Forces of Drifting | <input type="checkbox"/> | Stages | <input type="checkbox"/> |
| a Pole Fleeing Force | <input type="checkbox"/> | a Youth Mature Old | <input type="checkbox"/> |
| a Tidal Force | <input type="checkbox"/> | Erosional Landforms | <input type="checkbox"/> |
| Post Drift Studies | <input type="checkbox"/> | a Valleys | <input type="checkbox"/> |
| a Convectional Current Theory | <input type="checkbox"/> | ♦ Rills | <input type="checkbox"/> |
| a Mapping of the Ocean Floor | <input type="checkbox"/> | ♦ Gullies | <input type="checkbox"/> |
| o Continents – plate Tectonics | <input type="checkbox"/> | | |
| Lithospheric Plates | <input type="checkbox"/> | | |

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

- a Caves
- a Stacks
- Depositional Landforms
- a Beaches and Dunes
- a Bars Barriers Spits
- o Weathering
- Weather over Earth Materials
- Factors
- a Geological
- a Climatic
- a Topographic
- a Vegetative
- Major Processes
- a Chemical
- a Physical or Mechanical
- a Biological
- Chemical – Forces Chemical Action
- a Solution
- a Carbonation
- a Hydration
- a Oxidation & Reduction
- Physical Forces Gravitational , Expansion , Water Pressure
- a Unloading & Expansion
- a Temperature changes and Expansion
- a Freezing , Thawing , & Frost Wedging
- a Salt Weathering
- Biological Weathering
- a Burrowing
- a Wedging
- a Plant Roots
- a Effects of Weathering
- a Exfoliation(Flaking)– Exfoliation Domes , Tors
- Significance of Weathering
- a Soil Formation
- a Biomes and Biodiversity
- a Leaching / Enrichment
- o Mass Movements
- Activating causes
- Forms of movement – Heave Flow Slide
- 3 major Groups – Slow Movement , Rapid Movements , land Slides
- D Landforms across the world:**
- o Rivers and lakes
- o Mountain and Peaks
- o Plateaus

2. Climatology**D Composition**

- Gases
- Water Vapour
- Dust Particles

D Structure

- Exosphere
- Thermosphere
- Mesosphere
- Stratosphere
- Troposphere
- Altitude vs Temperature

D 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.

D 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

D Temperature

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

D 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)

D 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

D 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

D 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

- D World Climate**
- o The Hot, Wet Equatorial Climate
 - o The Tropical Monsoon and Tropical Marine Climates
 - o The Savanna or Sudan Climate
 - o The Hot Desert and Mid-Latitude Desert Climates
 - o The Warm Temperate Western Margin (Mediterranean) Climate
 - o The Temperate Continental (Steppe) Climate
 - o The Warm Temperate Eastern Margin (China Type) Climate
 - o The Cool Temperate Western Margin (British Type) Climate
 - o The Cool Temperate Continental (Siberian) Climate
 - o The Cool Temperate Eastern Margin (Lauren-tian) Climate
 - o The Arctic or Polar Climate

3. Oceanography

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

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

- Types of ocean currents
- a Surface currents & Deep water currents based on Depth
- a Cold and Warm Currents based on Temperature
- Major Ocean currents of the World
- Effects of Ocean Currents

4. Water Resource

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

5. Biogeography

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

- o Forests
- o Significance of forests
 - Economic significance,
 - Ecological significance
 - Cultural significance
- o Factors of forest development
- o Extent of forest cover
- o Classification of forests
 - Grasslands
 - Desert vegetation
 - Tundra Vegetation
- o Economic utilization of forests
- o 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
- o Conservation of forests
 - Forest conservation strategies
 - Reforestation
 - Monoculture plantation
 - Afforestation
- o Types of forestry
 - Social forestry
 - Agro-forestry

HUMAN GEOGRAPHY

1. Demography

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

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

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

2. Urbanization

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

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

3. Census

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

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ECONOMIC GEOGRAPHY

1. Agriculture

- D **Land resource**
 - o Land-use
 - o Land capability classification
 - o Causes of Land Degradation
 - o Impact of Land Degradation
 - o Steps taken by GOI
 - o Sustainable Land Management
- D **Basic terms related to Agriculture**

- o Performance of the agriculture sector
- o Types of farming in India
- o Dry zone farming
- o Organic farming
- o Cropping seasons in India
- o Cropping Pattern in India
- o Agriculture regionalization
- o Infrastructure factors: Seeds; Fertilizers; Irrigation
- o Land use pattern in India

- D Ferro-alloys and non-ferrous
- D Manganese
- D Chromium
- D Nickel
- D Tungsten
- D Antimony
- D Copper
- D Bauxite and Aluminium
- D Zinc; Lead
- D Tin
- D Precious metals: Gold
- D Silver
- D Platinum
- D Mineral chemicals
 - o Mica
 - o Potash
 - o Phosphate
 - o Nitrates
 - o Sulphur
- D Conservation of mineral resources

3. Energy resources

- D Classification of energy
- D Production of conventional energy
- D General trends of energy production and consumption
- D Reserves and sources of energy
- D Coal
 - o Nature and origin of coal
 - o Constituents and kinds of coal
 - o Coal fields and coal production
 - o By products of coal
 - o Conservation of Coal Petroleum
- D Petroleum
 - o Nature and properties of petroleum
 - o Origin and recovery
 - o Exploration
 - o Petroleum refining
 - o Petroleum reserves
 - o Producing areas
 - o Consumption of petroleum
 - o International trade
 - o OPEC and its role in oil trade
- D Natural gas: Reserves and Production
- D Hydro-electricity
 - o Advantages of hydro-electricity
 - o Ideal conditions for generation of hydro-electricity

- o Distribution of potential hydro-power
- o Hydro-electric power generation
- D Atomic (nuclear) energy
 - o Atomic source minerals: Uranium
 - o World distribution of uranium
 - o Production of uranium
 - o Thorium
 - o Production of atomic (nuclear) energy
 - o Nuclear energy: the energy of future
- D Alternative (non-conventional) sources of energy
 - o Solar energy
 - o Wind energy
 - o Geothermal power
- o Tidal energy
- o Wave energy
- o Biomass energy
- D Alternate Energy Sources
 - o Hydrogen as a Fuel for Future or Hydrogen as an Alternative Energy Source
 - o Microbial Fuel Cell
 - o Energy Context with Respect to Indian Scenario
 - o Energy Plantation
- D Energy crisis

4. Industry

- D Industrial development
- D Iron And Steel Industry
 - o Process of iron and steel production
 - o Location of iron and steel industry
 - o Early localization
 - o Development of iron manufacture
 - o Distribution of iron and steel industry
 - o Global steel production
 - o International trade
 - o Growth potential of the steel industry
- D Textile Industry
 - o Cotton textile industry: Location of the industry
 - o Recent trends in localization
 - o Distribution and production of cotton textiles
 - o Woollen textile industry: Location of the industry
 - o Silk textile industry: Raw silk manufacture
 - o Silk textile manufacturing
 - o Synthetic (artificial) silk industry: Distribution of man-made fibre and fabrics.

- | | | | |
|---|--------------------------|--|--------------------------|
| D Engineering Industries | <input type="checkbox"/> | o Pulp and paper industry: Essential conditions for pulp production | <input type="checkbox"/> |
| o Machine tools and machines: Areas of production | <input type="checkbox"/> | o Production of paper and paper board | <input type="checkbox"/> |
| o Industrial machinery: Textile machinery | <input type="checkbox"/> | o Newsprint | <input type="checkbox"/> |
| o Other industrial machinery | <input type="checkbox"/> | o International trade | <input type="checkbox"/> |
| o Agricultural machinery | <input type="checkbox"/> | o Salient features of pulp and paper industry | <input type="checkbox"/> |
| D Manufacturing of transport equipment | <input type="checkbox"/> | D Cement industry | <input type="checkbox"/> |
| o Automobile industry | <input type="checkbox"/> | o Distribution of cement industry | <input type="checkbox"/> |
| o Railway car and locomotive industry | <input type="checkbox"/> | o Recent trends: Main global competitors | <input type="checkbox"/> |
| o Shipbuilding | <input type="checkbox"/> | D Petroleum refining industry: Localization | <input type="checkbox"/> |
| o Recent trends | <input type="checkbox"/> | o Site selection of petroleum refineries | <input type="checkbox"/> |
| o Aircrafts industry | <input type="checkbox"/> | o History of oil refineries | <input type="checkbox"/> |
| Chemical Industry | <input type="checkbox"/> | o World pattern of oil refining | <input type="checkbox"/> |
| D | <input type="checkbox"/> | o Petroleum products | <input type="checkbox"/> |
| o Classes of chemicals: Branches of chemical industry | <input type="checkbox"/> | D Industrial Regions | <input type="checkbox"/> |
| o Heavy chemical industry | <input type="checkbox"/> | o Characteristics of industrial regions | <input type="checkbox"/> |
| o Production of acids and alkalies | <input type="checkbox"/> | o Delimitation of an industrial region | <input type="checkbox"/> |
| o Rise of chemical industry | <input type="checkbox"/> | o Principal industrial regions of the world | <input type="checkbox"/> |
| o Fertilizer industry: Nitrogen fertilizers | <input type="checkbox"/> | o 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"/> |
| o Phosphate fertilizers | <input type="checkbox"/> | o Eastern Asia—Japan, China, the 'Dragons', India, High tech patterns. | <input type="checkbox"/> |
| o Potash fertilizers | <input type="checkbox"/> | | |
| o Explosives | <input type="checkbox"/> | | |
| o Glass industry: Production of glass | <input type="checkbox"/> | | |
| D Agro-industries | <input type="checkbox"/> | | |
| o Synthetic rubber industry | <input type="checkbox"/> | | |

RECENT DEVELOPMENTS

- | | | | |
|---|--------------------------|--|--------------------------|
| D Existence of eighth continental 'Zealandia' confirmed. | <input type="checkbox"/> | D Climate Vulnerability Map of India | <input type="checkbox"/> |
| D BARNARD'S STAR B: 'Super Earth' found orbiting Sun's nearest single star. | <input type="checkbox"/> | D India largest emitter of SO ₂ in the world | <input type="checkbox"/> |
| D Earth's water a result of asteroid impacts and leftover gas from Sun's Birth: Study | <input type="checkbox"/> | D Ten new Ramsar sites in India | <input type="checkbox"/> |
| D East African Rift system is slowly breaking away with Madagascar splitting into pieces. | <input type="checkbox"/> | D Bamboonomics | <input type="checkbox"/> |
| D Havre world's largest deep Ocean volcanic eruption. | <input type="checkbox"/> | D Burning of Amazon forest | <input type="checkbox"/> |
| D National Cyclone Risk Mitigation Project (NCRMP) | <input type="checkbox"/> | D 'Dead-Zone' found in the Gulf of Mexico | <input type="checkbox"/> |
| D Pesticide Management Bill 2020 | <input type="checkbox"/> | D WAVES: Wealth accounting and the valuation of ecosystem service. | <input type="checkbox"/> |
| D Gogabeel: Bihar's first Community Reserve | <input type="checkbox"/> | D Miyawaki Method | <input type="checkbox"/> |
| D Andaman & Nicobar gets Island protection Zone | <input type="checkbox"/> | D Nature Index 2020 | <input type="checkbox"/> |
| D India Cooling action plan | <input type="checkbox"/> | D Avian botulism | <input type="checkbox"/> |
| D Forest Plus 2.0 | <input type="checkbox"/> | D Yellow rust disease in wheat crops | <input type="checkbox"/> |
| D Project replan | <input type="checkbox"/> | D Uranium contamination in ground water in ten districts of Bihar. | <input type="checkbox"/> |
| | | D Global Risk Report 2020 | <input type="checkbox"/> |
| | | D Massive reserves of mercury found in arctic permafrost. | <input type="checkbox"/> |
| | | D IEA BIOENERGY TCP | <input type="checkbox"/> |

- | | | | |
|--------------------------|--------------------------|--|--------------------------|
| D iCRAFPT | <input type="checkbox"/> | D Global Agriculture and food security programme | <input type="checkbox"/> |
| D Zearalenone in Cereals | <input type="checkbox"/> | D Noney Bridge | <input type="checkbox"/> |
| D Rice knowledge Bank | <input type="checkbox"/> | D Water Aerodrome in Chilka lake | <input type="checkbox"/> |
| D Ongole cattle | <input type="checkbox"/> | D Bogibeel Bridge | <input type="checkbox"/> |

 *Remarks*

INDIAN SOCIETY FEATURES & SOCIAL JUSTICE

INDIAN SOCIETY

1. Salient features of Indian society

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

2. Diversity of India

- D Can diversity be equated with difference?
- D The unity in diversity- a reality or a chimera
- D Some examples
- D Manner of reconciliation

3. Role of women's organizations

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

4. Poverty and development issues

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

- D Government's initiatives and the five year plans

- D Role of civil society organizations

5. Effects of globalization on Indian society

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

6. Social empowerment

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

7. Communalism

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

8. Secularism

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

9. Regionalism

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

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

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

2. Services relating to Health, Education, Human Resources

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

- D Reforms needed
- D SDGs and India

3. Issues relating to poverty and hunger

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

4. The Scheduled And Tribal Areas

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

WELFARE SCHEMES

1. Start-up and Skill Development

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

2. Vulnerable Sector

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

3. Health

- D National Health Mission
- D National Ayush Mission
- D Swasthya Rakshan Program

- D Jan Aushadhi Scheme
- D Mission Indradhanush
- D NFHS-4 survey

4. Education

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

5. Rural & Urban Development

- D Sansad Adarsh Gram Yojana
- D Gram Uday Se Bharat Uday Abhiyan
- D Shyama Prasad Mukharjee Rurban Mission
- D Deendayal Upadhyaya Gram Jyoti Yojana
- D Pradhan Mantri Gram Sadak Yojana
- D Swachh Bharat Abhiyan
- D Pradhan Mantri Awas Yojana- Gramin
- D Pradhan Mantri Awas Yojana - Urban
- D Housing for all by 2022
- D Smart Cities Mission
- D Hriday - National Heritage City Development and Augmentation Yojana
- D Amrut (Atal Mission for Rejuvenation and Urban Transformation)

6. Miscellaneous Schemes

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

- D Khelo India
- D One Rank One Pension Scheme
- D PRAGATI (Pro-Active Governance and Timely Implementation)
- D Indian Community Welfare Fund (ICWF)

7. Inclusive growth

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

8. Rural Development

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

9. Social Sector Bills

- D The Juvenile Justice (Care and Protection of Children) Act
- D 'Surrogacy (Regulation) Bill, 2016'

- D 'Child Labor (Prohibition and Amendment) Bill, 2016'
- D Maternity Benefit Bill, 2016
- D Pre-Conception & Pre-Natal Diagnostic Techniques (PNDT) Act
- D Mental Health Care Bill, 2013
- D Protection of Children from Sexual Offenses (POCSO)
- D Anti Trafficking Bill with Stringent Penalty
- D HIV and AIDS (Prevention and Control) Bill-2014 - Amendments
- D Domestic Violence Act, 2005 - SC Widens Ambit
- D Rights of Persons with Disabilities Bill, 2014 with more Benefits
- D Transgender Persons (Protection of Rights) Bill 2016
- D The Scheduled Castes and the Scheduled Tribes (Prevention of Atrocities) Amendment Act

SOCIAL ISSUES IN NEWS

- D Medical Termination of Pregnancy
- D Violence against women
- D Tech for Tribals
- D WHO award for Rajasthan Health Department
- D South Asian Migrant Crisis
- D Climate change is already damaging health of children, says Lancet report
- D Global Population Summit in Nairobi
- D Global Social Mobility Index
- D Project Samarthan
- D Swachh Survekshan 2020
- D Female Health and Hygiene Programmes - Khushi and Ujjawala Sanitary napkin initiatives
- D Bharatiya Poshan Krishi Kosh
- D School Education Quality Index
- D Samagra Shiksha Abhiyan
- D 'The Pulse Polio Programme'

- D Darwaza Band Part-2
- D STRIDE
- D "Kerala bans CFL and filament bulbs"
- D "Addition of 3 Endangered Indian Species to the Global Conservation List"
- D 'Migrant Policy Index'
- D "Lassa fever"
- D PM – KISAN scheme
- D National Education Policy 2020
- D Women in Armed Forces'
- D 'CAG Survey Report on School Toilets'
- D 'World Polio Day 2020, Where does India stand?'
- D 'Law against sexual harassment at work'
- D SC on Prohibition of Child Marriage Act, 2006'
- D Disabled are entitled to the same benefits of SC/ST quota: Supreme Court

 *Remarks*

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POLITY & GOVERNANCE

POLITY

1. Historical Evolution & Features

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

2. Preamble

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

3. Citizenship

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

- D Concept of dual citizenship
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- D Special privileges enjoyed by citizZens in India

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- D Right against Exploitation
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- D Right to Constitutional Remedies
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- D Writs and their uses
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- D DPSP related to International Peace
- D Implementation of DPSP
- D Fundamental Rights and the Directive Principles of State Policy Controversy

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- D Link of Fundamental Rights and Fundamental Duties

7. Other Principles

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

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

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

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

10. Union & States

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

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

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- D Legislative relations
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- D Misuse of Article 356
- D Issues related to concurrent list
- D Issues related to appointment of Governor
- D Issues related to state formation
- D Poor devolution of finances
- D Reserving bill for Presidential approval
- D Central sponsored schemes and issues
- D Special package for different states
- D Issues between Centre and State after 1990 reforms
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13. The President

- D Importance of President
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- D Election procedure
- D Advantages and disadvantages of single transferable form of voting
- D Presidents' Term of Office and emoluments
- D Executive Powers
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 - o Ordinance making power
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- D Office of the Vice-President
- D Functions

15. Prime Minister

- D Appointment of PM
- D Functions of PM
- D Role of PM with respect to
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 - o President
 - o Lok Sabha
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16. Council of Ministers

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

17. Attorney General of India

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

18. Parliament

- D Composition of Rajya Sabha
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- D Composition of Legislative assembly and Legislative Council
- D Qualification and disqualification of MPs and MLAs
- D Vacation of seats
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- D Financial proceedings
- D Comparison of Lok Sabha and Rajya Sabha
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- D Lowering of Parliamentary powers
- D Parliamentary committees and their working
- D Judicial activism and Parliament
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- D Integrated judicial system
- D Supreme Court

- o Composition

- o Independence of Supreme Court
- o Jurisdiction of SC
- o Judicial Review

- D High Court

- o Composition
- o Terms and removal
- o Jurisdiction
- o Other powers
- o Lower judiciary

- o Appointment

- o Powers

- D The role of the Supreme Court of India as guardian of the Constitution and protector of Fundamental Rights

- D Judicial Review

- D PIL

- D Judicial Activism

- D Judiciary appointment

- D Collegiums System

- D NJAC Controversy

- D National Court of Appeal

- D Judicial Accountability

- D Issues of corruption in judiciary

20. Ministries and Departments of the Government

- D Functioning of Ministries

- D Central Secretariat

- D Cabinet Secretary

- D Field organizations

- D Reforms needed

- D International methodology

21. Panchayats

- D Provisions of 73rd AA and 74th AA

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- D Municipal Corporations

- D Municipal Councils

- D Nagar Panchayats

- D The steps taken towards women's empowerment

- D Role of State Election commission

- D Role of State Finance Commission

- D Smart City Mission & Municipal Governance

22. Dispute redressal mechanisms and institutions

- D What is Dispute redressal mechanism?

- D Need of Dispute redressal mechanisms

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

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

24. The Governor

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

25. CM

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

26. The Advocate-General for the State

- D Appointment
- D Functions

27. State legislature

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

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

2. Effective Implementation

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

3. Government intervention

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

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

4. Development process and industry

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

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

5. Important aspects of governance, transparency and accountability

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

6. e-Governance

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

7. Citizens Charters

- D Citizens Charters
- D Introduction
- D Models

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

8. Role of civil services in a democracy

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

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

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

10. Appointment to various Constitutional posts, powers, functions and responsibilities of various Constitutional Bodies

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

- D Functions and responsibilities of Finance commission
- D Powers and privileges of Finance commission (provided by constitution and different ACTs of Parliament.)
- D National commission for SCs and STs.

11. Statutory, regulatory and various quasi-judicial bodies

- D SEBI
- D CVC
- D CBI
- D Planning Commission
- D NDC
- D PMO
- D Zonal Council
- D TRAI
- D IRDA
- D National Human Rights Commission
- D State Human Rights Commission
- D Central Information Commission
- D State Information Commission
- D National Consumer Disputes Redressal Commission
- D Tribunal
- D Medical Council Of India
- D Pension Fund Regulatory and Development Authority
- D Biodiversity Authority Of India
- D Press Council Of India
- D Forward Markets Commission
- D Inland Waterways Authority Of India
- o RBI

12. Elections in India

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

13. Political Parties in India

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

14. Role of Pressure Groups

- D Types of pressure groups
- D Role of pressure group in developing countries
- D Functions of pressure groups in India
- D Pressure groups methods
- D Pressure groups and Democracy
- D Criticism of pressure groups

RECENT DEVELOPMENTS

- D Call to bring Arunachal Pradesh under the ambit of the Sixth Schedule'
- D 'Article 32 and its ever changing interpretation'
- D Coalition Government as strengthening force to democracy
- D Daughter's equal right to ancestral property: SC'
- D 'Concern about democracy in the digital age'
- D National Company Law Appellate Tribunal (NCLAT)
- D 'The unrest on the Assam-Mizoram border'
- D In Economist's Democracy Index, India at its lowest ranking ever
- D Internet shutdowns
- D 'Centre allows additional borrowing by five states'
- D National Statistical Commission (NSC) Bill 2019
- D 'Shaheen Bagh case: Public spaces cannot be occupied indefinitely, says SC'
- D Proposed changes in definition of NRIs
- D 'State Cabinet nod to make Bodo, the associate official language of the State'
- D How a language is declared 'classical' in India, what benefits it enjoys?

- | | |
|---|--|
| D 'Armed Forces Tribunal' <input type="checkbox"/> | D 'Private Property is a human right: SC' <input type="checkbox"/> |
| D "Unparliamentary" speech and conduct in Parliament' <input type="checkbox"/> | D Uniform Civil code - the debate, the status <input type="checkbox"/> |
| D 'States mandated to set up panel on Content Regulation of Govt Ads' <input type="checkbox"/> | D e-Lok Adalats <input type="checkbox"/> |
| D 'Involuntary narco tests an intrusion into a person's mental privacy: Supreme Court' <input type="checkbox"/> | D Plea is SC challenging imposing of 'Hindi' as official court language <input type="checkbox"/> |
| D 'Three capitals for Andhra Pradesh — it's logic and the questions it raises' <input type="checkbox"/> | D Centre-State disputes and Article 131 <input type="checkbox"/> |
| D 'Plea on 'Office of Profit' dismissed by President' <input type="checkbox"/> | D 'National Recruitment Agency' <input type="checkbox"/> |
| D Grants-in-aid to Rural Local Bodies in 28 States <input type="checkbox"/> | D How the Centre's planned Sanskrit universities will function? <input type="checkbox"/> |
| D "Criminalisation of Politics" <input type="checkbox"/> | D Postal Ballot System <input type="checkbox"/> |
| D 'New Rules for Postal Ballot' <input type="checkbox"/> | D Promoting Tribals of India <input type="checkbox"/> |
| D 'Government plans to bring social security schemes under one umbrella' <input type="checkbox"/> | D 'Rethink Speaker's power to disqualify lawmakers: SC' <input type="checkbox"/> |
| | D Section 188 of IPC <input type="checkbox"/> |
| | D 'Abolition of Legislative Council' <input type="checkbox"/> |



Remarks

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

2. India and Bhutan

- D India, Bhutan and China: issues
- D The Recent Landmark visit by Indian Prime Minister
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3. Indo-Afghan Bilateral Relations

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

4. India-Bangladesh Relations

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

5. India-Maldives Relations

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

6. India-Sri Lanka Relations

- D Commercial Relations
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- D Fishermen Issue

7. India-Myanmar Relations

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

8. Indo-Pak Relations

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

9. Indo-Chine Relations

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

10. South China Sea Dispute

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

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

11. Security Challenges in the Indian Ocean Region

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

- D Piracy off the Coast of Somalia
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- D Fisheries and Livelihood Issues
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- D Declaration of Indian Ocean as Zone of Peace
- D India and Asian Nations relations

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

2. India-Mongolia

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

3. India – UAE Relations

- D Political and economic relation
- D Oil Economic Relation

4. India – IRAN

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

5. India – ISRAEL

- D Israel and Palestine
- D India – Israel Relations

6. India – Saudi Arabia

- D Areas of Cooperation
- D Challenges in relations

7. Asia-Pacific Region

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

8. India-South East Asia

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

9. Indo-Japan Bilateral Relationship

- D Economy Centric Relationship
- D Contemporary Perspective

10. India – South Korea

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- D Economic Partnership in Recent Years

11. India-Vietnam

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

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

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

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- D Historical Connections
- D Gandhi's Role
- D Nehru's Role
- D Strengthening of Ties
- D South-south Engagement
- D Current Dynamics
- D Economic Cooperation
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- D Energy Cooperation
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- D Trade Policy under Modi
- D Afro-Indian Trade
- D Indian investment in Africa
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- D Development cooperation and assistance

2. Indo-Australia Relationship

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

3. France

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

4. United Kingdom

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

5. India-USA Relations

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

- D Area of Co-operation : Energy and Climate Change

- D Area of Co-operation : Science & Technology (S&T) and Space
- D Area of Co-operation : People to People Ties
- D Area of Co-operation : Defence Cooperation

- D Intellectual Property Issues
- D India and International Organisations

6. The World Trade Organization

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

7. International Monetary Fund

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

8. Nuclear Security Summit

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

9. BRICS

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

10. BIMSTEC

- D Convention on Mutual Legal Assistance in Criminal Matters

11. IBSA

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

12. SAARC

- D Indo-Pak Conflict
D Problem of Resource Development

- D Prospects For SAARC

13. Relevance of Non-Alignment in present India

- D What is NAM?
D Relevance in present era

14. India-ASEAN Economic Cooperation

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

*Remarks*

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1. Indian Economy and issues relating to planning

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

2. Resource Mobilization

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

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

3. Inclusive growth and issues arising from it

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

4. Government Budgeting

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

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

5. Investment models

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

6. Fiscal policy

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

7. Taxation

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

8. Monetary policy in India

- D Instruments of Monetary Policy
- D Monetary policy in pre-reform Era (1948 – 1991)

- D Monetary Policy in Post-Reform Era (Since – 1991)
- D Urjit Patel Committee Report
- D Monetary Policy Committee and Inflation Targeting

9. Financial system

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

10. Banking

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

11. Foreign trade & International Organisations

- D International Trade
- D Trade Policy
- D Balance of Payments
- D Foreign Capital
- D Impact of Globalization on Indian Economy
- D International Monetary Fund
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- D AIIB and NDB

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

- D Steps taken by GOI
- D Sustainable Land Management

3. Land Reforms

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

4. Agriculture Finance

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

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- D Commercial Bank
- D Lead Bank Scheme
- D Multi Agency Approach
- D Regional Rural Banks
- D National Bank for Agriculture and Rural Development (NABARD)
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- D Kisan Credit Card Scheme
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- D Government Policy For Agricultural Credit
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- D Historical Background
- D Issues Related to Crop Insurance
- D Pradhan Mantri Fasal Bima Yojana
- D Comparison with Earlier Crop Insurance Schemes
- D Challenges

7. Agriculture Marketing

- D Process of Agricultural Marketing in India
- D Structure of Agricultural Marketing in India
- D Importance of Proper Agriculture Marketing

- D Government Measures to Improve Agricultural Marketing in India
- D Analysis of APMC Act

8. Subsidies

- D Objectives of subsidies
- D Transfer of resources from gainers from economic policies to losers from economic policies
- D Farm Subsidies
- D Fertiliser subsidies
- D Subsidy on power
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- D Rationale of Minimum Support Price
- D Impact of MSP on inflation
- D 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
- D Buffer Stock policy and government's intervention in food market to keep prices under reasonable limits to help consumers
- D Food Security bill, questions of resource mobilization for the FSB, criticism of the FSB
- D Important questions on the future of subsidies

9. Agricultural Revolutions in India

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

10. Food Processing

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

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1. Industrial policy and industrial development: Main Issues

- D Mahalanobis strategy and India's industrial policy-Discussing Industrial policy resolution 1948 and 1956 critically
- D New Economic Policy and Industrial policy under the policy of liberalization, privatization and globalization
- D Phases of Industrial development

2. Main features of Industrial development in India

- D Roles of private sector and public sector, Investment in the industrial sector, employment, productivity, profit etc.
- D Strategies for disinvestment and privatization
- D Role of Small, Medium and Micro enterprises, Government Policy,

main problems, effects of globalization

- D New Manufacturing Policy
- D Industrial disbursal and Industrial corridors
- D SEZs- Main issues like land use, relocation of same industries that exist, exports earnings vs loss of tax income
- D Industrial sickness, institutional mechanism to support the sick industries, exit policy issues
- D Main constraints in the industrial development of India
- D Effects of globalization on industries, Sub-prime crisis and sovereign debt crisis on Industry in India
- D Industrial Finance in India: Role of development banking, commercial banking, venture capital, angel capital in industrialization and promotion of entrepreneurship
- D Make in India achievements

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- D Transport
- D Importance and development of transport
- D Means of transport
- D Transport costs and economic distance
- D Operating costs in transport
- D Relative importance of means of transport: Railways, Roads, Pipeline, Oceans, Air transport
- D Profits and freight rates
- D Government's transport policy
- D Transport patterns in the world: Oceanic transport
- D Ocean transport routes
- D Inland waterways
- D Main regions of inland waterways
- D Railways: Factors affecting the railroads
- D Distribution of railroads in the world
- D Factors influencing air transport
- D Pipeline Transport
- D Petroleum (oil) Pipelines
- D Gas Pipelines
- D Transport costs and specialization

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

RECENT DEVELOPMENTS

- | | | |
|---|--|---|
| <p>D What's next for virtual currency? <input type="checkbox"/></p> <p>D 'Business Reform Action Plan' <input type="checkbox"/></p> <p>D Financial Inclusion Index (FII) <input type="checkbox"/></p> <p>D Essential Commodities Act <input type="checkbox"/></p> <p>D Gender budgeting <input type="checkbox"/></p> <p>D 'Bilateral Netting of Qualified Financial Contracts Bill, 2020' <input type="checkbox"/></p> <p>D 'Business Reform Action Plan' <input type="checkbox"/></p> <p>D India Slips to 131 in Human Development Index Ranking' <input type="checkbox"/></p> <p>D 'India slips 17 spots down to 111th rank' <input type="checkbox"/></p> <p>D 'US puts India back on Currency Manipulation Watchlist' <input type="checkbox"/></p> <p>D 'IFSCA obtains Membership of International Association of Insurance Supervisors (IAIS)' <input type="checkbox"/></p> | | <p>D 'Regional Cluster concept of economic development' <input type="checkbox"/></p> <p>D 'Fortification of edible oil with Vitamins A and D' <input type="checkbox"/></p> <p>D 'Lessons from the Bangladesh and Vietnam's Growth Story' <input type="checkbox"/></p> <p>D 'A secure future for platform workers' <input type="checkbox"/></p> <p>D 'The prize in Economic Science 2020' <input type="checkbox"/></p> <p>D 'NITI Aayog announces governing structure of India Energy Modelling Forum' <input type="checkbox"/></p> <p>D 'CAROTAR Rules 2020' <input type="checkbox"/></p> <p>D 'NSE IFSC-SGX Connect' <input type="checkbox"/></p> <p>D 'World Risk Index (WRI) 2020' <input type="checkbox"/></p> <p>D RBI to bring startups under Priority Sector Lending (PSL) <input type="checkbox"/></p> <p>D RBI sets up panel for stressed loans resolution norms. <input type="checkbox"/></p> |
|---|--|---|

 *Remarks*

SCIENCE & TECHNOLOGY

BIOLOGY

1. Chemical Building Blocks of Life

2. History and Origin of Life

3. Cells

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

4. Genetics

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

5. Classification of Living Things

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

6. Evolution

- D Evolution of Life
- D Animal Evolution
- D Human Evolution

7. Tissues

- D Epithelial tissue
- D Connective tissue
- D Muscle tissue

8. Economic Zoology

- D Beneficial animals: Corals - Earthworm - Vermiculture - Beneficial insects
Prawns - Lobsters - Crabs - Pearl oysters - Fishes - Guano - Aquarium - Vivarium.
- D Harmful animals: Disease causing organisms
Vectors - Poisonous organisms - Fouling organisms - Pests.

9. Endocrine System

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

10. Respiration

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

11. The Transport System in Organisms

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

12. Skeletal and Muscular Systems

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

13. Reproduction

- D Asexual Reproduction in Plants
- D Asexual Reproduction in Animals
- D Sexual Reproduction in Plants

- D Sexual Reproduction in Animals
- D Sexual Reproduction in Humans

14. Excretion, Osmoregulation and Thermoregulation

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

15. Nutrition

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

INSTITUTIONS & POLICY

- D India's policy in the field of the science and technology
- D The S&T policy resolution in 1958
- D S&T policy of the 1983
- D S&T policy of the 2003
- D S&T policy 2013
- D Institutional structure
- D Department of Science & Technology
- D CSIR
- D Survey of India
- D Science and Engineering Research Council
- D Technology Development Board
- D National Accreditation Board For Testing And Calibration Laboratories

- D Science and technology as a source of Human Resource Development
- D Awards related to Science
- D New Initiatives Aligned with the National Agenda
- D India and World collaboration in science projects
- D Technology Vision Document 2035
- D National Biotechnology Development Strategy 2015-2020
- D National Intellectual Property Rights Policy
- D Organ donation rules in India
- D Policy on Synthetic Biology

BIOTECHNOLOGY**1. Genetics and biotechnology**

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

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

2. Biological fuel generation

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

- D Bioethanol from biomass
- D Biodiesel
- D Methane
- D Hydrogen

3. Environmental Biotechnology

- D Microbial Ecology Environmental Biotechnology
- D Waste water and sewage treatment
- D Landfilling technologies
- D Composting
- D Bioremediation
- D Detection and monitoring of pollutants
- D Microbes and the geological environment
- D Environmental sustainability

4. Plant and Forest Biotechnology

- D Plant biotechnology
- D Forest biotechnology

5. Animal and Insect Biotechnology

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

6. Food and beverage biotechnology

- D Food and beverage fermentations
- D Microorganisms as food
- D Enzymes and food processing
- D Amino acids, vitamins and sweeteners
- D Organic acids and polysaccharides
- D Public acceptance and safety of new biotechnology foods

- D Biotechnology and medicine
- D Pharmaceuticals and biopharmaceuticals
- D Antibiotics
- D Vaccines and monoclonal antibodies
- D Biopharmaceuticals/therapeutic proteins
- D Pharmacogenetics
- D Molecular biology and human disease
- D Diagnostics in developing countries
- D Gene therapy
- D Systems biology and medicine
- D Stem cell biotechnology

7. Protection of biotechnological inventions

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

8. Recent initiatives in Health & Biotechnology

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

SPACE

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

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

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

DEFENCE

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

NUCLEAR ENERGY

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

IT, ELECTRONICS & TELECOM

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

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

NANO-SCIENCE & NANO TECHNOLOGIES

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

ROBOTICS

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

RECENT DEVELOPMENTS

- | | | | |
|--|--------------------------|---|--------------------------|
| D 'Tobacco behind more than a quarter of India's cancer cases' | <input type="checkbox"/> | D Hydroxychloroquine-now a schedule H1 drug | <input type="checkbox"/> |
| D Herd Immunity | <input type="checkbox"/> | D First-ever digital geological map of moon | <input type="checkbox"/> |
| D 'H9N2' | <input type="checkbox"/> | D NASA's Artemis mission, and the Indian American in its new astronaut cohort | <input type="checkbox"/> |
| D 'World's Neglected Tropical Disease Day' | <input type="checkbox"/> | D 'Polycrack Technology' | <input type="checkbox"/> |
| D 'India's population is expected to be more feminine in 2036' | <input type="checkbox"/> | D ARCI develops Low-cost Super-capacitor | <input type="checkbox"/> |
| D The contact tracing technology | <input type="checkbox"/> | D Starship spacecraft' | <input type="checkbox"/> |
| D 'Desalination Plants' | <input type="checkbox"/> | D Huntingtin Disease | <input type="checkbox"/> |
| D 'IRNSS now part of World Wide Radio Navigation System' | <input type="checkbox"/> | D 'Abhyas High-speed Expendable Aerial Target (HEAT)' | <input type="checkbox"/> |
| D Discovery of Li-rich giant stars | <input type="checkbox"/> | | |

D 'Supersonic Missile Assisted Release of Torpedo (SMART) system'	<input type="checkbox"/>	D "Genome India Project"	<input type="checkbox"/>
D NASA's Spitzer Space Telescope	<input type="checkbox"/>	D "GISAT-1 mission"	<input type="checkbox"/>
D Mars Insight Mission	<input type="checkbox"/>	D 'Ariel Space Mission'	<input type="checkbox"/>
D "Voyager 2"	<input type="checkbox"/>	D "Scientists discover animal that doesn't breathe oxygen"	<input type="checkbox"/>
D 'India test-fires new version of nuclear capable Shaurya missile'	<input type="checkbox"/>	D National Space Promotion and Authorization Centre (IN-SPACe)	<input type="checkbox"/>
D 'Omega Centauri globular cluster'	<input type="checkbox"/>	D National Science Technology and Innovation Policy (STIP 2020)	<input type="checkbox"/>
D NEON: The Virtual Human	<input type="checkbox"/>		



Remarks

shakti institute

ECOLOGY & ENVIRONMENT

ECOLOGY & BIODIVERSITY

1. Ecology

- D Types of Ecology
- D Ecological Hierarchy
- D Scope of Ecology
- D Habitat & Ecological Niche
- D Deep vs Shallow Ecology
- D Ecological Principles
- D Ecological Community
 - o Structure and Characteristics of a Community
 - o Stratification
 - o Ecotones
 - o Ecological Dominance
 - o Seasonal and Diurnal Fluctuation
 - o Periodicity
 - o Turnover
 - o Interdependence
- D Ecological Succession
 - o Types and Process of Succession
 - o Climax Community
- D Range of Tolerance , Maximum Range
- D Difference between Ecology , Environment and Ecosystem

2. Ecosystem and its dynamics

- D Ecosystem Definitions
- D Functions and Properties of Ecosystem
- D The Structure/Components of Ecosystem
 - o Abiotic Components
 - o Biotic Components
- D Ecosystem Dynamics
 - o Flow of Energy in Ecosystem
 - o Trophic Levels

- o Food Chain
- o Types & Significance of Food Chain
- o Food Web
- o Models for Energy Flow
- o Ecological Productivity
- o Ecological Pyramid
- D Biomagnifications
- D Biological Control
- D Organic Farming

3. Biogeochemical Cycles

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

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

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

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

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

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

6. Biodiversity Basics

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

7. Biodiversity Conservation

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

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

8. Effect of Human Activities on Environment

- D Effect of Modern Agriculture on Environment
- D Effect of Housing on Environment
- D Effect of Power Generation on Environment
- D Effect of River Valley Projects (Water Resource Projects) on Environment
- D Effect of Mining on Environment
- D Effect of Transportation Activities on Environment
- D Effect of Tourism on Environment

9. Water Resource degradation

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

10. Minerals & Environmental Degradation

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

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

11. Deforestation

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

12. Waste Management

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

13. Sustainable Development

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

14. Environmental Pollution

- D Air Pollution

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

15. Solid Waste Management

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

16. Coastal Ecosystem Management

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

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

17. Recent developments

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

18. Environmental Impact Assessment

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

19. Environmental Laws

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

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

20. Environment related Institutions and Organizations

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

21. Schemes

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

22. International Environmental Governance

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

23. Basics of Climate change

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

24. Urbanization and climate

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

25. Impact of agriculture on climate

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

26. Global Warming & Health

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

27. Recent developments

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

RECENT DEVELOPMENTS

- | | |
|---|---|
| <ul style="list-style-type: none"> D Demand of Organic Farming showing upward trend' <input type="checkbox"/> D 'The concept of Precision farming in India' <input type="checkbox"/> D 'Zoological Survey of India lists 62 species of skinks' <input type="checkbox"/> D Canada's Milne ice shelf collapsed' <input type="checkbox"/> D 'Arctic Ice fails to refreeze by late October, setting a new record' <input type="checkbox"/> D 'First-ever World Solar Technology Summit (WSTS)' <input type="checkbox"/> D 'Climate Migration primarily in middle income, agri-dependent countries: Study' <input type="checkbox"/> D A quarter of Bangladesh has been inundated with floodwaters: NASA <input type="checkbox"/> D 'Net zero by 2060: China's bold new carbon emissions goal' <input type="checkbox"/> D 'Conservation of the world's seagrasses' <input type="checkbox"/> D Snow Leopard <input type="checkbox"/> D 'Aldabra's coral reefs recovered faster from bleaching, finds new research' <input type="checkbox"/> D Locust attack in India <input type="checkbox"/> D Conserving the Western Ghats <input type="checkbox"/> D Ramsar Sites in India <input type="checkbox"/> D Delhi gets its first smog tower: What is it and how does it work? <input type="checkbox"/> D 'Kamdhenu Deepawali Abhiyan' <input type="checkbox"/> | <ul style="list-style-type: none"> D "Sukhna Lake becomes a 'living entity'" <input type="checkbox"/> D Centre issues rules for import, possession of exotic species' <input type="checkbox"/> D World to suffer \$10 trillion loss by 2050: WWF <input type="checkbox"/> D 'Kerala to curb alien plants' growth in NBR' <input type="checkbox"/> D Puntius sanctus <input type="checkbox"/> D 'Eight Beaches awarded the Blue Flag Certification' <input type="checkbox"/> D Ecological disaster at Baghjan <input type="checkbox"/> D 'Link between climate change and wildfires' <input type="checkbox"/> D Black carbon deposits on Himalayan glaciers <input type="checkbox"/> D Massive plastic pollution footprint <input type="checkbox"/> D A Giant fish is declared extinct <input type="checkbox"/> D Trimeresurus Salazar <input type="checkbox"/> D 'Komodo dragons could become extinct soon due to climate change' <input type="checkbox"/> D "The Future of Earth, 2020" <input type="checkbox"/> D Coastal Erosion – an analysis <input type="checkbox"/> D 'Highest number of wetland species in Kaziranga' <input type="checkbox"/> D Mud packs and other remedies to save the Taj from pollution, age and insects <input type="checkbox"/> D State of India's Birds 2020 <input type="checkbox"/> |
|---|---|

 *Remarks*

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INTERNAL SECURITY

1. Internal Security Challenges

- D Internal Security Challenges
- D Social Diversity as Issues of Security Threat
- D Challenges from within
- D Neighbours as Issue of Security Threat
- D Non-State Actors as Issue of Security Threat
- D Global Indices and Measurement of Vulnerability of a State Towards such Non-State Actors
- D Law and Order vs. Internal Security

2. Terrorism Threat to India

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

3. Organized Crime

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

4. Linkage between Development and Spread of Extremism

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

5. Insurgency in North-East

- D Issues & Conflicts
- D Assam Insurgency

6. Security Challenges in Border Areas

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

7. Basics of Cyber Security

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

8. Cyber Warfare

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

9. Social Media and Internal Security Threat

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

10. Money Laundering

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

11. Black Money in India

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

12. Police Reforms in India

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

13. Various Security Forces and their Mandate

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

Remarks

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ETHICS, INTEGRITY & APTITUDE

1. Ethics Basic Introduction

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

2. Human Values

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

3. Aptitude and foundational values of civil services

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

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

4. India & World Thinkers

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

- D 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
- D 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

- D Components of Attitude**
- Affective component
 - Cognitive component
 - Behavioral component
- D 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

- D Theories Associated with Emotional Intelligence**
- D Can Emotional Intelligence be Developed?**
- D 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
- D Importance of Emotional Intelligence at Workplace**
- D Importance of Emotional Intelligence in Civil Services**

7. Values & Ethics in Public Administration

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

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

8. Probity in Governance

- D Concept of Public Service
- D Philosophical basis of Governance and Probity
- D Information Sharing, Transparency and Right to Information
- D Flaws in RTI and recommendations for improvement

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

APPLIED ETHICS

1. Euthanasia Issue

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

2. Surrogacy

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

3. Ethics & Sports

- D Importance of sports

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

4. Media Ethics

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

5. Business Ethics

- D Principles of Business Ethics
- D Dimensions related to Business Ethics in Organisation
- D Business Ethics and Corporate Governance
- D Journey from Philanthropy to Corporate Social Responsibility
- D Issues related to Corporate Social Responsibility
- D Issues in implementation of Business Ethics
- D Introduction
- D Issues of conducting research on animals
- D Issue of keeping animals as pets
- D Issue of Cruelty against animals
- D Conclusion

6. Ethics Related to Economic Sanctions

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

7. Refugees & Ethics

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

8. Ethical Dilemmas of Globalization

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

9. Ethics of War

- D Ethics and War theories
- D Evils of war

10. Environmental Ethics

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

12. Animal Ethics

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

13. Food Adulteration and Ethics**14. Abortion: Ethical or Unethical**

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

15. Honour Killing

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

16. Marital Rape

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

17. Ethical Issue Involved in Child Labour

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

18. Ethical Issue Involved in Treating Juvenile as Adult

- D Juvenile justice system
- D Negative implications

11. Ethical Issues in Biotechnology

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

19. Ethics and Old Age

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

20. Ethics in Public and Private Relationships

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



Remarks