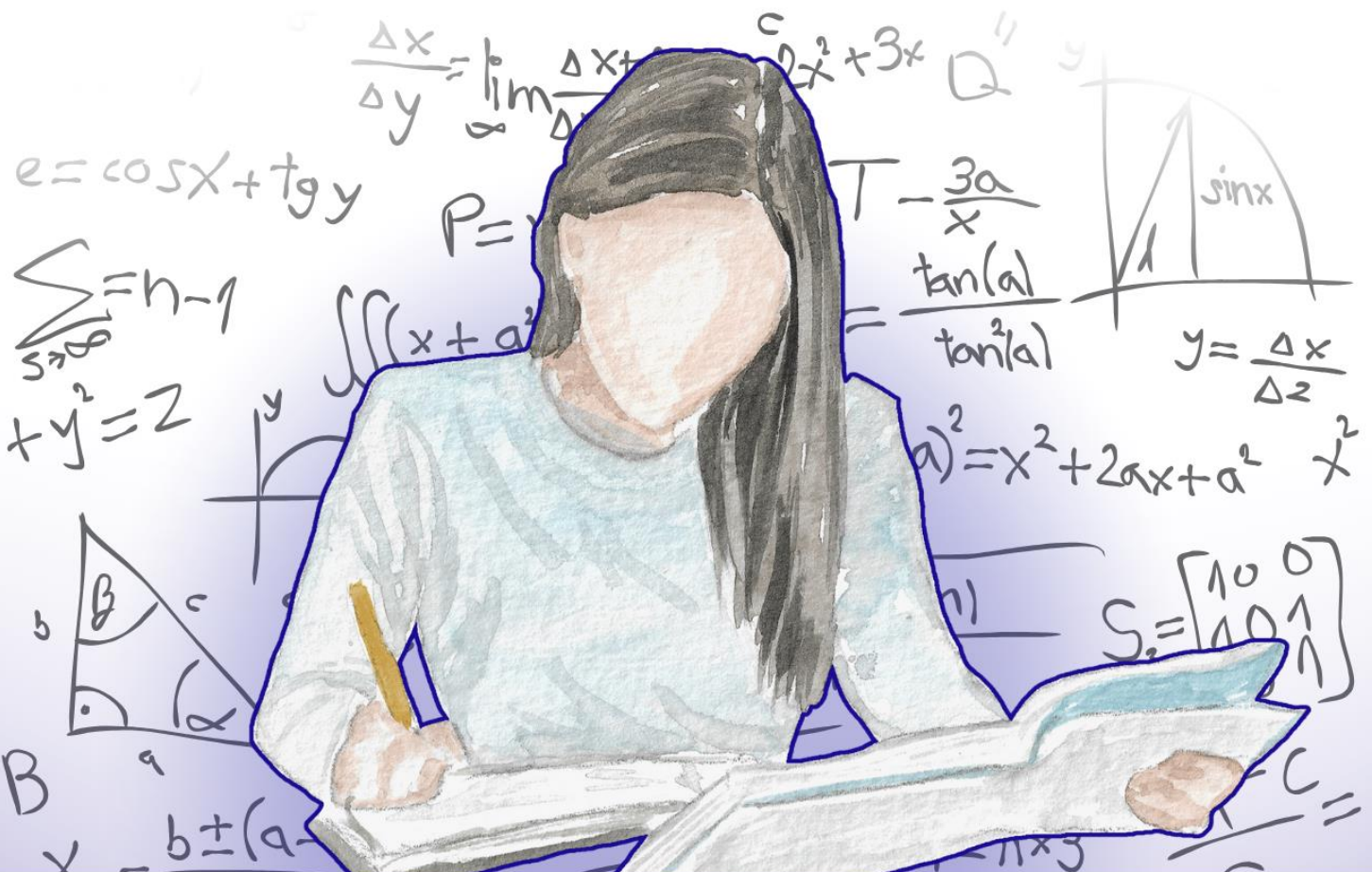


IAS ORIGIN

YOUR PATHWAY TO UPSC SUCCESS

— Detailed Analysis of — UPSC SYLLABUS



The UPSC (Union Public Service Commission) Civil Services Exam, or IAS exam, has a three-stage process: Prelims (objective, entry-level), Mains (subjective, written exam), and Interview/Personality Test.

UPSC Prelims:

- **Consists of two papers:** General Studies Paper 1 (GS) and Civil Services Aptitude Test (CSAT).
- Both papers are objective-type with multiple-choice questions.
- GS paper determines merit ranking, while CSAT is qualifying (33% required to pass).
- Negative marking applies in Prelims: 1/3rd of the assigned marks are deducted for each incorrect answer.

UPSC Mains:

- Consists of nine papers, including two qualifying language papers (Paper A & B), one essay paper, four General Studies papers (GS1, GS2, GS3, GS4), and two optional subject papers.
- All papers are descriptive (subjective) in nature.
- The total marks for the Mains exam are 1750.
- Papers A and B are qualifying, requiring a minimum of 25% marks to qualify for evaluation of other papers.
- The remaining seven papers are considered for the final merit ranking.
- Candidates can choose one optional subject from the list of 48 optional subjects provided by UPSC.
- The time duration for each paper is 3 hours, with an extra 30 minutes for blind candidates.

UPSC Interview/Personality Test:

- The final stage of the exam, assessing the candidate's personality and suitability for the Civil Services.
- The interview carries 275 marks.
- The final merit list is prepared based on the marks obtained in the Mains exam and the Interview/Personality Test.

What is the UPSC Exam Pattern 2025?

Exam Pattern	Prelims	Mains
Exam Mode	Offline	Offline
Exam Duration	2 papers of 2 hours each	9 papers of 3 hours each
Type of Paper	Objective	Descriptive
Type of Questions	MCQs	Descriptive
Total Number of Questions	CSAT: 80 questions GS: 100 questions	Usually, 20 questions per paper
Total Marks	400	1750
Marking Scheme	+2 for correct answer, negative marking of 1/3 of 2 marks	No negative marking

IAS ORIGIN
HERE IT BEGINS
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ANCIENT HISTORY

PRE HISTORY OF INDIA

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

RURAL AND AGRICULTURAL COMMUNITIES

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

INDUS VALLEY CIVILIZATION

- Harappan civilization
- Harappan Urban planning
- Harappan Internal & Foreign Trade
- Agriculture
- Domestication of animals
- Crafts
- Weights and Measures
- Script and Language
- Harappan Society
- Harappan Religion

- Harappan Economy
- Harappan Burial System
- Decline of Harappan Culture.

VEDIC ERA

- Native Land of the Aryans
- Characteristics of Aryan Culture
- Vedic Texts & Upanishad
- Reconstruction Resources for Vedic Society and Culture
- The geography of the Rig Vedic era and the Later Vedic phases
- Economic Conditions
- Political Structure and Monarchy's Development
- Social Structure and the Varna System.

PRE MAURYAN PERIOD

- Second urbanization's age
- Formation of states
- The Sixteen Mahajanapadas
- Evolution of Republics
- Rise of urban places
- Evolution of Coins
- Haryanka dynasty
- Shishunaga dynasty
- Nanda dynasty

EVOLUTION OF JAINISM AND BUDDHISM

- Rise of Jainism and Buddhism

THE MAURYAN EMPIRE

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

POST-MAURYAN INDIA (BC 200-AD 300)

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

IMPERIAL GUPTAS

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

- Urban centers in Gupta period

HARSHAVARDANA

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

CONNECTIONS WITH ASIA

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

SANGAM PERIOD (SOUTH INDIAN DYNASTIES)

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

MEDIEVAL HISTORY

EARLY MEDIEVAL INDIA'S MAJOR DYNASTIES (750–1200)

- The Pratiharas (8th to 10th Century)
- The Palas (8th to 11th Century)
- The Tripartite Conflict
- The Senas (11th to 12th Century)
- The Rajaputas
- Pallavas
- Chalukyas
- Rashtrakutas
- Indian Feudalism
- Administration
- Society and Culture
- Economy and the decline of Trade.

CHOLAS AND OTHER SOUTH INDIAN KINGDOMS

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

THE DELHI SULTANATE (1206-1526 AD)

- Slave Dynasty
- Khalji Dynasty (1290-1320 AD)
- Tughlaq Dynasty (1320-1414 AD)
- Sayyid Dynasty
- Lodi Dynasty

- Mongol and other Turk attacks,
- Government,
- the economy and urbanization
- Challenges that contributed to the Sultanate's decline.

VIJAYANAGAR EMPIRE

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

STRUGGLE FOR EMPIRE IN NORTH INDIA (AFGHANS, RAJPUT'S AND MUGHALS)

- Ibrahim Lodi and Babur's conflict, also known as the Battle of Panipat.
- Problems that Babur faced following the Battle of Panipat.
- Struggle with Rana Sanga
- Afghans' problems and those in the Eastern Regions.

STRUGGLE FOR EMPIRE IN NORTH INDIA

- Humayun and the Afghans
- Early Humayun activities and the conflict with Bahadur Shah
- The Gujarat Campaign
- The Bengal Campaign, and Struggle with Sher Khan.

THE ESTABLISHMENT OF THE NORTH INDIAN EMPIRE

- The Surs dynasty

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

STATE AND GOVERNMENT UNDER AKBAR

- The Suzerainty Concept of Akbar
- The Vikalat, the Central Ministries, and the Provincial Ministries make up the central and provincial governmental structures.
- The Working of Government – the - Ruler, Land-Revenue System, the Dahsala System, the Mansabdari
- System and the army.

THE DECCAN AND THE MUGHALS (UP TO 1657)

- The progress of the Mughal Empire towards the Deccan
- Mughal acquisition of Berar, Khandesh, and certain regions of Ahmadnagar
- Emergence of Malik Ambar and the Mughal's challenges in consolidation (1601-27)
- The demise of Ahmadnagar and acceptance of Mughal suzerainty
- Bijapur and Golconda's acknowledgment of Mughal dominance
- Shah Jahan's rule in the Deccan (1636-57)
- Cultural contributions of the Deccani States

THE MUGHALS' FOREIGN POLICY

- Akbar's Engagements with the Uzbeks
- The Qandahar Question and Diplomacy
- Relations with Iran during the Mughal Rule
- Shah Jahan's Balkh Campaign
- The Final Phase of Mughal-Persian Relations.

INDIA DURING THE FIRST HALF OF THE SEVENTEENTH CENTURY

- Jahangir's Accession - Early Challenges Faced
- Consolidation and Expansion of the Empire - Focusing on Mewar, East India, and Kangra
- Nur Jahan's Influence and the Nur Jahan 'Junta'
- Shah Jahan's Rebellions and Mahabat Khan's Coup d'état
- Assessment of Jahangir's Rule
- The Relationship between State and Religion during this period
- Shah Jahan's Efforts in Empire Consolidation and Expansion
- Evolution of the Mughal Ruling Class and the Mansabdari System.

AURANGZEB'S REIGN

- Religious Policies: Aurangzeb's Initial Phase (1658-1679)
- Implementation of Reforms and Puritanical Measures
- Handling of Temples and Jizyah; The Second Phase (1679-1707)

- Territorial Consolidation and Empire Expansion in North India
- Dealing with Popular Revolts from groups like the Jats, Satnamis, Afghans, and Sikhs
- Strained Relations and Conflicts with Marwar and Mewar.

THE PEAK AND CHALLENGES OF THE MUGHAL EMPIRE, FOCUSING ON THE MARATHAS AND THE DECCAN.

- The emergence of the Marathas and the initial rule of Shivaji
- The Purandar Treaty and Shivaji's visit to Agra
- Shivaji's Swarajya - Governance and Accomplishments.
- Aurangzeb's Engagements with the Deccani States (1658-1687)
- Marathas and their Impact in the Deccan (1687-1707)
- Evaluating Aurangzeb's Rule and the Jagirdari Crisis.

SOCIETY – STRUCTURE AND DEVELOPMENT

- Rural Communities
- Urban Areas and Urban Lifestyle
- Craftsmen and Skilled Artisans
- Women's Status and Roles
- Domestic Workers and Enslaved Individuals
- Living Standards and Quality of Life.
- The Dominant Elite - Nobility and Rural Gentry
- The Intermediate Classes

- The Mercantile and Business Classes.

ECONOMIC PATTERNS AND OUTLOOK

- Domestic Trade
- Foreign Trade - Influence of Foreign Trading Companies
- Indian Merchants and Their Role in Overland Trade
- The Mughal State's Impact on Commerce
- India's Economic Trends and Prospects in the First Half of the Eighteenth Century.

RELIGION, FINE ARTS, SCIENCE, AND TECHNOLOGY

- Religion - Hinduism, Sikhism, and Islam.
- Fine Arts - Architecture, Painting, Language and Literature, and Music.
- Science and Technology.

NORTHERN INDIA DURING THE FIRST HALF OF THE EIGHTEENTH CENTURY

- Bahadur Shah I and the Commencement of Struggles.
- Rajput Affairs and the Influence of the Marathas in the Deccan, Escalating Factional Strife.
- Contest for the "New" Wizarat: Zulfiqar Khan and Jahandar Shah's Tussle (1712-13).
- The Struggle of the Sayyid Brothers for the "New" Wizarat.
- The Establishment of the Sayyid "New" Wizarat.
- M. Amin Khan and Nizam-ul-Mulk's Leadership in the Wizarat.

- Emergence of Regional States and the Onset of Foreign Invasions in India (1725-1748).

THE MARATHA QUEST FOR DOMINANCE

- Maratha Expansion Strategies
- Marathas and Nizam-ul-Mulk Relations
- Maratha Inroads into Gujarat and Malwa
- Maratha Advancements into Doab and Punjab
- Initial Phase (1741-1752) and Later Phase (1752-1761)
- The Third Battle of Panipat.

MODERN HISTORY

PRE-1857 SITUATION

- The Later Mughals and their Downfall
- Regional Forces during the 18th Century
- Arrival of Europeans in India
- The British Conquest of India
- Carnatic Wars
- The Battles of Plassey and Buxar
- The Anglo-Mysore War
- The Anglo-Punjab War
- British Governance Prior to 1857
- British Economic Policies.

THE INDIAN REBELLION OF 1857

- Reasons behind the uprising of 1857
- Key figures associated with the 1857 revolt
- The quelling of the 1857 revolt
- Characteristics and nature of the 1857 rebellion.
- Consequences of Revolt of 1857

EARLY NATIONALISM

- The Rise of Early Nationalism
- The Indian National Movement (1858-1905)
- Early Nationalists and the Swadeshi Movement
- The Government of India Act 1909
- The Home Rule League Movement.

THE STRUGGLE FOR SWARAJ (SELF-GOVERNMENT)

- Montague's Statement in August 1917
- The Khilafat Movement and the Non-Cooperation Movement (NCM)
- The Formation of the Swaraj Party
- The Second Phase of Revolutionary Terrorism in the 1920s
- The Simon Commission and the Nehru Report.

INDICATIONS OF INDEPENDENCE

- The Civil Disobedience Movement
- The Round Table Conference
- The Poona Pact
- The Government of India Act 1935
- The Tripuri Session of 1939
- The August Offer
- Individual Satyagraha (1940-1941).

PARTITION OF INDIA

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

FREEDOM STRUGGLE IN INDIA

- Indian Renaissance and Socio-Religious Movements
- Civil Rebellions during the British Period

- Tribal Movements during the British Period
- Peasant's Movements during the British Period
- Working Class Movement (1850-1900)
- Growth of Communalism
- Left and Communist Trends in the National Movement
- Press and Education during the British Period
- Role of Women in the Freedom Struggle
- Governors Generals of India
- Viceroys of India
- Notable Personalities
- Prominent Newspapers/Journals
- Congress Sessions.

POST INDEPENDENCE CONSOLIDATION

STATE REORGANIZATION

- Constitutional Provisions for State Formation
- Reasons for the Merger of States
- Princely States' Accession
- Accession of Territories under French and Portuguese Control
- Sikkim's Accession
- Rehabilitation of Refugees.
- Federal Challenges
- Regional Aspirations, Insurgencies, and Areas of Strain
- Accommodation and National Integration.

LINGUISTIC REGIONALISM IN INDIA

- Constitutional Provisions and Language Policy
- Language and Its Impact on Regionalism.

TRIBAL CONCERNS AND POLICY IMPLEMENTATION

- Current Status of Tribal Issues
- Consolidation of Tribal Policy
- Caste Challenge and Social Unity

CASTE PRACTICES IN INDIA

- The Ambedkar Movement
- Constitutional Provisions
- Recent Government Initiatives for Scheduled Castes' Empowerment
- Challenges of Manual Scavenging.

COMMUNALISM AND SOCIAL COHESION

- Secularism
- Factors Leading to Communalism in India
- Consequences of Communalism and Social Consolidation

THE CHALLENGE OF LINGUISTIC MINORITIES

- Operational Inefficiencies
- Government Initiatives

OVERVIEW OF ECONOMIC DEVELOPMENT SINCE INDEPENDENCE

- Economic Planning in India

AGRICULTURE

- Progress through Five Year Plans.
- Land Reforms
- Agricultural Challenges Post the Green Revolution
- Movements for Agrarian Reforms
- Agricultural Achievements since Independence
- Present-day Agricultural Challenges

INDUSTRY

- Industrial Progress since Independence
- Public Sector Development since Independence
- Sector-wise Development
- Private Sector Growth since Independence

- Industrial Policy since Independence
- Make in India Initiative.

NEW ECONOMIC POLICY

- Consequences of the New Economic Policy

POST-INDEPENDENCE SCIENCE AND TECHNOLOGY POLICIES

- India's Approach to Science and Technology
- Institutional Framework for Science and Technology Development
- Science and Technology Before the Reform Period
- The Impact of Economic Reforms on Science and Technology in India
- Novel Policy Initiatives in Science and Technology
- The Agenda of Skill Training.

WORLD HISTORY

THE COMMENCEMENT OF THE MODERN ERA

- The Breakdown of the Feudal System
- The Renaissance
- Humanism
- Art and Architectural Advancements
- Literature
- Scientific Advancements.
- Reformation
- Explorations, Discoveries, and Trade
- Colonization and the Emergence of Nation States
- The English Revolution

THE FRENCH REVOLUTION

- Causes of the French Revolution
- The Revolution in France.
- France during Napoleon's Rule
- Influence of the Revolution
- Importance of the Revolution

NATIONALISM IN EUROPE

- Emergence of the Nation-State System
- The Unification of Italy
- The Unification of Germany
- Colonialism and Imperialism
- Colonialism
- The Era of Imperialism (1870-1914)
- Imperialism in Asia
- An Examination of Colonialism.

THE RISE OF THE UNITED STATES

- Establishment of American Colonies
- The Declaration of Independence and the Formation of the United States of America
- The American Revolutionary War
- The Impact of the American Revolution
- Political Consequences of the Revolution
- Influence of the American Revolution on the French Revolution
- The US Civil War
- Effects of the Civil War on the USA
- The Global Impact of the US Civil War
- Analysis of Major Events during the War
- Consequences of World War I
- Aftermath of World War I
- Formation of the League of Nations.

THE RUSSIAN REVOLUTION

- Significant Pre-Revolutionary Events in Russia
- Causes of the Revolution
- Progression of the Revolution
- Outcomes and Consequences of the Revolution.

THE PERIOD BETWEEN THE TWO WORLD WARS (1919 TO 1939)

- The Great Depression - An Economic Overview
- The Emergence of Fascism in Italy
- The Rise of Nazism in Germany
- The Soviet Union (USSR)
- World War II
- Causes and Underpinnings of the War
- Progression of the War
- Outcomes and Aftermath of the War
- An Examination of the War
- The Decolonization Era

DEVELOPMENTS IN THE MIDDLE EAST

- Democratic Reforms in the Middle East
- The Impact of Arab Nationalism
- The Establishment of Israel.

THE COLD WAR

- Causes and Underlying Reasons
- The Evolution of the Cold War (1945-1953)
- The Extent of Thawing Relations after 1953
- The Nuclear Arms Race and the Cuban Missile Crisis (1962).

THE POST-COLD WAR WORLD

- Global Issues Since 1991
- The Process of European Integration
- A Timeline of European Integration
- The Emergence of Global Islamic Terrorism

- The Rise of China

COMMUNISM, SOCIALISM, AND CAPITALISM

- Capitalism (Definition, Types, and Examples)
- Communism (Definition, Types, and Examples)
- The Significance of Capitalism.

INDIAN CULTURE

SCULPTURAL ART IN INDIA

- Sculptures from the Harappan Civilization
- Sculptures during the Mauryan Age
- Sculptural Art in the Post-Mauryan Period
- Jain Sculptures in India
- Buddhist Sculpture Traditions
- Sculptural Art during the Gupta Period
- Sculptures in the Medieval School
- Modern Indian Sculpture.

ARCHITECTURAL HERITAGE IN ANCIENT INDIA

- Architectural Features during the Harappan Period
- Mauryan Architecture Highlights
- Architectural Trends in the Post-Mauryan and Gupta Periods
- The Exquisite Temples of Khajuraho
- Temples in the State of Odisha
- Temples in Gwalior
- Architectural Marvels of Gujarat
- Temples in Rajasthan
- Temples in Bengal
- Temples in Assam
- Temples in Himachal Pradesh
- Temples in Jammu and Kashmir
- Pallava Period Architecture
- Chola Period Architecture

- Temples from the Pandya Dynasty
- Vijayanagara Period Architecture
- Temples from the Nayaka Era
- Temples in Kerala
- Temples in the Vesara Style
- Hoysala Style Temples
- Rashtrakuta Period Architecture.

INDO-ISLAMIC ARCHITECTURE

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

CONTEMPORARY ARCHITECTURE

- European Impact on Modern Architecture
- Indo-Saracenic Architectural Style
- Post-Independence Architecture in India

INDIAN PAINTINGS

- The Tradition of Mural Paintings in India
- The Tradition of Miniature Paintings in India
- Paintings in the Deccan Region
- Rajput School of Painting
- Pahari School of Painting
- Miniature Painting in South India
- Regional Painting Styles

- Modern Paintings
- Contemporary Paintings.

POTTERY HERITAGE IN INDIA

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

MUSIC IN INDIA

- Fundamental Elements of Indian Music
- Various Forms of Indian Music
- Musical Instruments in Indian Music
- Institutions Associated with M

DANCES IN INDIA

- The Notion of Dance in Indian Culture
- The Concept of Ashta Nayika
- The Eight Classical Dance Forms in India
- Folk Dances
- Modern Dance Styles.

INDIAN MARTIAL ARTS

- The Origins of Martial Arts
- Varieties of Traditional Martial Arts

INDIAN THEATRE

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

INDIAN PUPPETRY

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

INDIAN CINEMA

- Film Industry in India
- Historical Perspective of Indian Cinema
- Categorization of Indian Cinema Films

RELIGIONS IN INDIA

- Pre-Vedic Religion
- Hinduism
- Buddhism
- Jainism
- Sikhism
- Islam
- Christianity
- Zoroastrianism
- Judaism

PHILOSOPHY IN INDIA

- Bhakti & Sufi Movements
- Bhakti Movement
- Vaishnava Acharyas: Metaphysical Foundation
- Other Saints of the Bhakti Movement
- Maharashtra Dharma
- Sufism

LANGUAGES & LITERATURE IN INDIA

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

MISCELLANEOUS TOPICS

- Indian Handicrafts
- Indian Universities
- Personalities Related to Culture
- Places of Cultural Interest
- Fairs and Festivals in India
- Cultural Institutions in India
- Awards and Honors Associated with Culture
- The Calendar
- The Eras

- Science and Technology in Ancient India
- UNESCO's List of Cultural Heritage in India
- Legal Provisions Related to the Protection and Promotion of Indian Culture and Heritage.

CONTEMPORARY ISSUES IN INDIAN ART AND CULTURE

- Understanding Socio-cultural Patterns and Practices of Pre-Historic Paintings and Potteries
- Neolithic Art: A Glimpse into Early Art Forms and Practices
- Chalcolithic Arts: Potteries and Cultural Practices
- Sculptures and Images in the Indus Valley Civilization: Decoding Socio-cultural Aspects
- Seals of the Indus Valley: Contrasting and Analyzing Contemporary Civilization
- Literary Excellence and Significance: Shruti, Smriti, and Brahmanas
- Comparing Vedic Age with the Indus Valley: Understanding the Gap through Sources
- Upanishads: The Highest Point of Indian Philosophical Thought
- The Rise of Heterodox Sects: Buddhism, Jainism, and Other Ajivikas
- Revival of Hinduism and New Elements and Cults, including Tantrism
- The Golden Age of the Gupta Period: Separating Myth, Legends, and Reality.

- Reconstructing Gupta and Post-Gupta Periods through Pillars, Inscriptions, and Numismatics
- Early Medieval India: Changes and Continuity in Cultural Features
- Contribution of Regional States in Architectural Development and Cultural Enrichment
- Bhakti and Sufism in India: Strengthening the Social-Cultural Realm
- Analyzing the Greatness of the Mughals through the Lens of Culture.


IAS ORIGIN
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GEOGRAPHY

PHYSICAL GEOGRAPHY

GENERAL GEOGRAPHY

- The Earth's Origin
- Early Theories
- Modern Theories - Big Bang Theory
- Star Formation
- Formation of Planets
- Solar System

THE EVOLUTION OF THE EARTH

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

GEOLOGICAL HISTORY OF THE EARTH

- Latitude and Longitude, including Important Parallels and Meridians
- Motions of the Earth - Rotation, Revolution, and their Effects
- Inclination of the Earth's Axis and its Effects
- Local and Standard Time, International Date Line, Calendar
- Eclipses - Solar and Lunar
- Origin of Life
- Geological Time Scale

GEOMORPHOLOGY

INTERIOR OF THE EARTH

- Sources of Information

- Direct
- Indirect (Earthquakes, Waves, Magnetic Field)
- Seismic Waves
- Body Waves
- Surface Waves
- Understanding Earth's Interior with the Help of Seismic Waves

INTERNAL STRUCTURE OF THE EARTH

- Crust
- Lithosphere
- Mantle
- Asthenosphere
- Outer Core
- Inner Core
- Seismic Discontinuities

GEOLOGY

- Minerals
- Major Elements of the Earth's Crust
- Physical Characteristics (Crystal Form, Cleavage, Fracture, Lustre, Color, Streak, Transparency, Structure, Hardness, Specific Gravity)
- Metallic Minerals (Precious, Ferrous, Non-Ferrous)
- Non-metallic Minerals (Sulphur, Phosphates, Cement)
- Rocks (Aggregate of Minerals)

- Petrology
- Rocks and Landforms
- Rocks and Soils
- Three Families of Rocks (Igneous, Sedimentary, Metamorphic)
- Rock Cycle

EARTHQUAKES

- Seismic Waves: P, S, Body, and Surface Waves.
- Shadow Zone
- Types of Earthquakes
- Causes of Earthquake
- Effects
- Frequency
- Locating an Epicenter
- Distribution of Earthquake
- Earthquake Observatories

VOLCANO

TYPES

- Shield
- Composite
- Caldera
- Flood Basalt
- Mid Ocean Ridge

TYPES OF LAVA

- Andesitic or Acidic lava
- Basic or Basaltic lava
- Intrusive volcanic Landforms
- Batholiths

- Lacoliths
- Lapoliths
- Phacoliths
- Sills
- Dykes
- Extrusive Volcanic Landforms
- Geysers and Hot springs
- Extinct, Dormant and Active volcanoes

DISTRIBUTION OF VOLCANOES

- Pacific Ring of Fire
- Mediterranean volcanism
- Other regions
- Effects of Volcanoes

TSUNAMI

- Mechanism of Tsunami Waves
- Properties of Tsunami Waves
- Effects of Tsunami

GEOMORPHIC PROCESSES

- Earth's Surface and Its Formation
- Exogenic Forces (External Processes)
- Endogenic Forces (Internal Processes)
- Gradation, Degradation & Aggradation
- Geomorphic Processes
- Endogenic Processes
- Diastrophism
- Orogenic Processes
- Epierogenic Processes
- Earthquakes
- Plate Movements

- Volcanism
- Exogenic Forces
- Denudation Processes
- Weathering
- Mass Movements
- Erosion: Transportation & Deposition

Distribution of Continents & Oceans

THEORIES

- Continental Drift Theory (Alfred Wegener, 1912)
- Pangea, Panthalassa, Laurasia, Gondwana Land
- Evidence in Support of Continental Drift Theory
- Jigsaw Fit
- Rocks of the Same Age Across Oceans
- Tillite
- Placer Deposits
- Distribution of Fossils

FORCES OF DRIFTING

- Pole Fleeing Force
- Tidal Force

POST DRIFT STUDIES

- Convectional Current Theory
- Mapping of the Ocean Floor

CONTINENTS - PLATE TECTONICS

- Lithospheric Plates
- Major Plates
- Minor Plates

- Plate Boundaries
- Divergent Boundaries ... (and other types of boundaries)
- Convergent
- Transform
- Rates of Plate Movements
- Force of plate movements

LANDFORMS AND THEIR EVOLUTION

- Causes
- Geomorphic Processes
- Agents

GEOMORPHIC AGENTS

- Erosional or Destructional Agents
- Depositional or Constructional Agents

AGENTS AND THEIR IMPACTS

- Wind, Running Water, Ground Water, Glaciers, Waves & Currents.

WINDS

EROSIONAL LANDFORMS:

- Pediments and Pediplains,
- Playas, Deflation Hollows, Caves, Mushroom Rocks, Table Rocks, Pedestal Rocks

DEPOSITIONAL LANDFORMS:

- Barchans,
- Seif,
- Parabolic,
- Transverse,
- Longitudinal

Running Water

HUMID REGIONS

- Stages: Youth, Mature, Old

EROSIONAL LANDFORMS:

- Valleys, Rills, Gullies, V-Shaped Valleys, Gorges (Hard Rocks), Sedimentary Canyons, Potholes & Plunge pools, Incised or Entrenched Meanders, River Terraces - paired & unpaired.

DEPOSITIONAL LANDFORMS:

- Alluvial Fans, Deltas, Floodplains, Natural Levees, Point Bars, Meanders, slip off bank, Undercut bank, Oxbow Lake, Braided Channels

GROUNDWATER (KARST TOPOGRAPHY)

- Permeable Rocks
- Percolation, Bedding Plains
- Limestone and Dolomite Regions

EROSIONAL LANDFORMS

- Pools-Swallow Hole, Valley Sinks (Uvalas), Sinkholes, Collapse Sinks (Dolines), Balkans, Adriatic regions.

Caves

DEPOSITIONAL LANDFORMS

- Stalactites
- Stalagmites
- Pillar Columns
- Glaciers

EROSIONAL LANDFORMS:

- Cirque of Tarn Lakes, Hors and Serrated Regions – Arete, Glacial Valleys/ Troughs – Fiords.

DEPOSITIONAL LANDFORMS

- Glacial Tills, Moraines, eskers , Outwash Planes ,Drumlins

WAVES AND CURRENTS:

- High Rocky Coasts & Low Sedimentary Coasts.

EROSIONAL LANDFORMS

- Cliffs, Terraces, Caves, Stacks

DEPOSITIONAL LANDFORMS

- Beaches and Dunes, Bars, Barriers, Spits

WEATHERING

- Weather over Earth Materials

FACTORS

- Geological, Climatic, Topographic, Vegetative

MAJOR PROCESSES:

- Chemical, Physical or Mechanical, Biological

CHEMICAL FORCES:

- Solution, Carbonation, Hydration, Oxidation & Reduction

PHYSICAL FORCES:

- Gravitational, Expansion, Water Pressure

EFFECTS OF WEATHERING

- Exfoliation (Flaking) – Exfoliation Domes, Tors
- Mass Movements:
- Activating Causes

- Forms of Movement: Heave, Flow, Slide
- Three Major Groups: Slow Movement, Rapid Movements, Landslides
- Landforms across the World:
- Rivers and Lakes
- Mountains & Peaks
- Fold Mountains
- Block Mountains
- Volcanic Mountains

PLATEAUS

- Plateau Formation Process
- Plateau Types: Dissected Plateau, Volcanic Plateau
- Economic Significance of Plateaus
- Major Plateaus of the World

Climatology

COMPOSITION OF ATMOSPHERE

- Gases
- Water Vapor
- Dust Particles

STRUCTURE

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

SOLAR RADIATION HEAT BALANCE

- Temperature
- Insolation
- Aphelion and Perihelion
- Variability of Insolation at the surface of the Earth
- Day Season Year
- Rotation on Axis, Angle of Inclination of sun rays
- Length of the day

HEAT BALANCE

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

ATMOSPHERIC CIRCULATION AND WEATHER SYSTEMS

- Atmospheric Pressure
- Vertical variation of pressure

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

GENERAL CIRCULATION OF THE ATMOSPHERE

- Pattern of Planetary Winds
- Latitudinal Variation of
- Atmospheric Heating
- Emergence of Pressure Belts
- Migration of Belts Following apparent Path of Sun
- Distribution of continents & Oceans
- Rotation of the Earth

CIRCULATION

- Simplified Global Circulation
- Hadley Cell, Ferrel Cell, Polar cell
- Seasonal Wind
- Local Wind
- Land and Sea Breezes
- Mountain and Valley winds

AIR MASS

- Fronts
- Extra Tropical Cyclone
- Thunderstorms

- Tornadoes

WATER IN THE ATMOSPHERE:

- Water vapor in the air, precipitation, humidity (absolute and relative), saturation, dew point, evaporation, and condensation, leading to the formation of dew, frost, fog, and mist.
- Various types of clouds, such as cirrus, cumulus, stratus, nimbus, cirrostratus, cirrocumulus, altostratus, altocumulus, stratocumulus, cumulus, and cumulonimbus clouds.
- Different types of precipitation, including rainfall, snowfall, sleet, and hail, with variations like conventional, orographic, cyclonic, frontal, and monsoonal rainfall.
- Overview of the distribution of rainfall across the world.
- Tropical cyclones, their formation conditions, convective cyclogenesis, paths, associated damage, cyclones in the Arabian Sea, naming conventions, and early warning systems.

JET STREAMS:

- Features and types of jet streams, including permanent and temporary ones.
- The impact of jet streams on weather patterns.
- Temperate Cyclones:
- Overview of air masses, fronts, and the origin and development of temperate cyclones.

A COMPARISON BETWEEN TROPICAL AND TEMPERATE CYCLONES.

- Polar Vortex:
- Explanation of the polar vortex, its characteristics, and its relationship with ozone depletion.

EL NINO AND LA NINA

- Understanding El Nino Southern Oscillation (ENSO) and the Indian Ocean dipole effect.
- The effects of these phenomena on regional and global climate patterns and their influence on the Indian monsoon

WORLD CLIMATE:

- Descriptions of various climate types across the world, including the hot, wet equatorial climate, tropical monsoon, tropical marine, savanna or Sudan, hot desert, mid-latitude desert, warm temperate western margin, temperate continental, warm temperate eastern margin, cool temperate western margin, cool temperate continental, and cool temperate eastern margin (Laurentian) climates.

Oceanography

WATER ON THE SURFACE OF THE EARTH:

- Explanation of the hydrological cycle, its components, and processes involved in the circulation of water on Earth.

OCEANS:

- Overview of the relief of the ocean floor, including its four divisions -

continental shelf, continental slope, deep sea plain, and oceanic deep and trenches.

- Description of minor relief features such as mid-oceanic ridges, seamounts, submarine canyons, guy outs, and atolls.

TEMPERATURE OF THE OCEAN WATER:

- Discussion of vertical and spatial variations in ocean water temperature.

FACTORS INFLUENCING TEMPERATURE DISTRIBUTION IN OCEANS.

- Explanation of the thermocline and its three layers.
- Salinity of the Ocean Water:
- Factors affecting the salinity of ocean water.
- Vertical distribution of salinity in oceans.
- Understanding the density of ocean waters.

OCEAN WATER MOVEMENTS: FACTORS INFLUENCING AND RESOURCES

- Factors Affecting Ocean Water Motion: The movement of ocean water is influenced by various factors, encompassing both horizontal and vertical motions.

CURRENTS

- Horizontal and Vertical Motion: Ocean currents play a crucial role in the movement of water. They can flow horizontally, following patterns set by wind, temperature, and salinity differences, as well as vertically, in response to density variations.

Waves

MOTION OF WATER MOLECULES

- Waves contribute to the movement of water molecules, causing oscillations at the surface. They are responsible for transferring energy across the ocean.

CHARACTERISTICS OF WAVES

- Waves possess unique properties such as wavelength, amplitude, and frequency, determining their behavior and impact on water movement

GRAVITATIONAL FORCES AND TIDES

- Tidal Currents
- Types of Tides
- Importance of Tides

OCEAN CURRENTS

- Primary Force Initiating Currents
- Secondary Forces Affecting Currents
- Types of Ocean Currents.
- Cold and Warm Currents based on Temperature
- Major Ocean Currents of the world.
- Effects of Ocean Currents
- Atlantic Meridional Overturning Circulation (AMOC)

RESOURCES FROM THE OCEAN

- Ocean Deposits
- Mineral Resources on Deep Sea Floor.
- Energy Resources
- Biotic Resources

- Deep Ocean Mission
- UNCLOS (United Nations Convention on the Law of the Sea).

WATER RESOURCES

- Utilization of Inland Water Resources
- Main Features of Oceanic Water Resources
- Utilization of Oceans by Humans
- Water Usage Trends
- Water Contamination
- Preservation of Water Resources
- Methods for Water Resource Conservation
- Interlinking of Rivers Projects
- Challenges with Aging Dams

Biogeography

SOIL

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

VEGETATION RESOURCES

- Types of Natural Vegetation
- Forests
- Significance of forests
- Economic significance
- Ecological significance

- Cultural significance
- Factors of forest development
- Extent of forest cover
- Classification of forests
- Grasslands
- Desert vegetation
- Tundra Vegetation
- Economic utilization of forests

DEFORESTATION

- Deforestation in tropical forests
- Deforestation in temperate forests
- Rate and extent of deforestation
- Causes and factors of deforestation
- Immediate causes of deforestation
- Indirect deforestation
- Underlying causes of deforestation
- Conservation of forests
- Forest conservation strategies
- Reforestation
- Monoculture plantation
- Afforestation

TYPES OF FORESTRY

- Social forestry
- Agro-forestry
- Miyawaki Method

PHYSICAL GEOGRAPHY OF INDIA

PHYSICAL GEOGRAPHY OF INDIA:

- Geographical Location
- Geopolitical Importance of India
- Geological Regions
- The Deccan Plateau
- The Himalayas and other Mountain Ranges on the Peninsula
- Indo-Gangetic-Brahmaputra Plain
- Geographical Divisions

WATER DRAINAGE SYSTEM IN INDIA

- Drainage System of the Himalayas
- River Networks within the Himalayan Drainage
- Indus River System
- Ganga River System
- Brahmaputra River System
- River Networks in the Peninsular Region
- Small Rivers Flowing Eastward and Westward

CLIMATE:

- The Weather Patterns
- Factors Affecting India's Climate
- Monsoon Phenomenon
- Mechanism of the Monsoon
- Traditional Explanation
- Contemporary Theories
- The Air Mass Theory
- The Jet Stream Theory

- EL-NINO and LA-NINA Impact
- Seasonal Cycle
- The Cold Season
- The Hot Season
- The Southwest Monsoon Season
- The Retreating Monsoon Season
- Climatic Zones of India

SOILS IN INDIA

- Types of soil
- Soil Textures
- Challenges of Soil Degradation and Erosion
- Soil Conservation Measures

NATURAL VEGETATION

- Categories of Forests in India
- Extent of Forest Cover in India
- Conservation of Forests
- Issues Affecting Forests in India

HUMAN GEOGRAPHY

DEMOGRAPHY

- Human Resources Concept
- Distribution of Population
- Factors Affecting Population Distribution
- Physical, Socio-cultural, and Demographic Factors
- Global Population Distribution
- Population Distribution across Continents
- Population Density
- Patterns of Population Density
- Causes of Rapid Population Increase
- Determinants of Population Growth
- Population Characteristics
- Age Composition
- Population Pyramids
- Gender Composition
- Literacy Rates
- Theories of Population Growth
- Malthusian Theory
- Marxian Theory
- Demographic Transition Theory
- Population Challenges
- Population Issues in Developing Countries
- Population Issues in Developed Countries

URBANIZATION

- India's Urbanization Features and Patterns
- Challenges of Urbanization in India
- Rural-Urban Migration
- Emergence of Slums
- Formation of Informal Settlements
- Urban Transport
- Transportation in Urban Areas
- Waste Disposal
- Management of Waste
- Water Supply, Drainage, and Sanitation
- Urban Poverty
- Inclusive Cities/Smart Cities
- Development of Inclusive/Smart Cities
- Current Government Initiatives
- Migration & Reverse Migration:
- Importance of the Rehabilitation Policy
- Different Types of Urban Settlements
- Urbanization Process in India
- The Process of Urban Growth in India
- Morphology of Urban Settlements
- Town Planning and Patterns of Rural Settlement
- Migration: Push Factors and Pull Factors
- Migration Within a Country and Across Borders
- Categorization of Cities Based on Their Functions

- Difference between Boundaries and Frontiers, Their Classification
- National Urbanization Policy
- Government Policy on Urban Development
- Principles of Urban Planning
- Changes in Land Use and Cover
- Factors Affecting Rural Settlements, Their Types, and Pattern
- Cities – Hierarchical Classification
- Morphological Classification Arranging Cities in a Hierarchy and Based on Their Structure

CENSUS

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

ECONOMIC GEOGRAPHY OF INDIA

Agriculture

LAND RESOURCE

- Land-use
- Land capability classification
- Causes of Land Degradation
- Impact of Land Degradation
- Steps taken by GOI
- Sustainable Land Management
- Performance of the agriculture sector
- Types of farming in India
- Cropping seasons in India
- Infrastructure factors: Seeds; Fertilizers; Irrigation
- Land use pattern in India
- Institutional Factors as land reform
- Horticulture sector in India
- Agricultural revolutions
- Agricultural labors
- Price Policy for Agriculture
- Major schemes in agricultural sector
- National Policy for farmers
- Impact of climate change on agriculture
- sustainable agriculture
- Use of IT in agriculture
- Agriculture Issues and Challenges

Productivity of Crops and conditions for growth

WHEAT

- Conditions of growth
- Varieties
- Types of cultivation
- Production pattern
- International trade

RICE

- Conditions of growth
- Varieties
- Methods of cultivation
- Production pattern
- International trade
- Maize (Corn)
- Conditions of growth
- Production pattern
- International trade

BARLEY

- Conditions of growth
- Production pattern
- International trade

COFFEE

- Types of coffee
- Conditions of growth
- Production pattern
- International trade

Fibre Crops

COTTON

- Varieties of cotton
- Conditions of growth
- Production pattern
- International trade

JUTE

- Conditions of growth
- Production pattern
- International trade
- Substitutes of Jute: Flax, Hemp, Sisal

NATURAL RUBBER

- Other sources of rubber
- Plantations in South-east Asia
- Production pattern
- International trade

SUGARCANE

- Conditions of growth
- Production pattern

MINERAL RESOURCE

- Types of minerals
- Metallic minerals
- Non-metallic mineral
- Distribution of minerals and mining regions
- Distribution, production and international trade of Metallic minerals

FERROUS METALS

- Iron ore
- Ferro-alloys and non-ferrous Manganese
- Chromium
- Nickel
- Tungsten
- Antimony
- Copper
- Bauxite and Aluminum
- Zinc; Lead, Tin

PRECIOUS METALS

- Gold
- Silver
- Platinum
- Mineral chemicals
- Mica
- Potash
- Phosphate
- Nitrates
- Sulphur

ENERGY RESOURCES

- Classification of energy
- Production of conventional energy
- General trends of energy production and consumption
- Reserves and sources of energy

COAL

- Nature and origin of coal

- Constituents and kinds of coal
- Coal fields and coal production
- By products of coal
- Conservation of Coal

PETROLEUM

- Nature and properties of petroleum
- Origin and recovery
- Exploration
- Petroleum refining
- Petroleum reserves
- Producing areas
- Consumption of petroleum
- International trade
- OPEC and its role in oil trade

ADVANTAGES OF HYDRO-ELECTRICITY

- Ideal conditions for generation of hydro-electricity
- Distribution of potential hydro-power
- Hydro-electric Power Generation

ATOMIC (NUCLEAR) ENERGY

- Atomic: source minerals: Uranium
- World distribution of uranium
- Production of uranium
- Thorium
- Production of Atomic (Nuclear) Energy
- Nuclear Energy: the energy of future

SOURCES OF ENERGY

- Renewable Energy
- Solar Energy

- Wind Energy
- Geothermal Energy
- Tidal Energy
- Wave Energy
- Biomass Energy
- Alternate Energy Sources
- Hydrogen as a Fuel for Future
- Hydrogen as an Alternative Energy.

INDUSTRY

- Industrial development
- Iron And Steel Industry
- Process of iron and steel production
- Location of iron and steel industry
- Early localization
- Distribution of iron and steel industry
- Global steel production international trade
- Growth potential of the steel industry.

TEXTILE INDUSTRY

- Cotton textile industry: Location of the industry
- Recent trends in localization
- Distribution and production of cotton textiles

COTON TEXTILE INDUSTRY

- Geographical location of the industry
- Recent localization trends
- Distribution
- Production of cotton textiles.

WOOLEN TEXTILE INDUSTRY

- Geographic concentration of the industry
- Silk Textile Industry
- Manufacturing of raw silk and silk textiles.

SYNTHETIC SILK INDUSTRY:

- Production and distribution of artificial silk.
- Man-made fibre and fabrics.
- Engineering Industries: Various aspects of the engineering sector.
- Machine Tools and Machines
- Production areas for machine tools and machines.

INDUSTRIAL MACHINERY

- Machinery used in the textile sector and other industries
- Agricultural Machinery
- Production of automobiles
- railway cars
- locomotives
- ships and aircraft

CHEMICAL INDUSTRY

- Different classes of chemicals
- Heavy Chemical Industry

FERTILIZER INDUSTRY

- Production of nitrogen, phosphate, and potash fertilizers.

TRANSPORT AND COMMUNICATION

- Land Transport
- Roads
- Railways
- Water Transport
- Air Transport
- Sea Routes
- Shipping Canals
- Inland Waterways.
- Pipelines
- Regional Rapid Transit System
- AERA Act Amendment

INDIAN SOCIETY

CHARACTERISTICS OF INDIAN SOCIETY

- Salient attributes that define Indian society.
- Transformations occurring within the fabric of Indian society and their consequences.
- Factors contributing to these changes.
- The current state and condition of Indian society today.

INDIA'S PLURALISM

- Understanding the idea and significance of diversity.
- Examining the diverse aspects prevalent in India.
- Investigating if diversity can be equated with differences.
- Assessing the reality or perception of unity in diversity.
- Strategies to harmonize the various elements within the Indian society

THE ROLE OF WOMEN'S ORGANIZATIONS

- Historical significance of women's organizations in India.
- Various categories of women's organizations.
- The extent of their reach and impact.
- Challenges encountered by women's organizations.
- Exploring the potential for increased vocal participation and strategies to achieve it.

- The contribution of Self-Help Groups (SHGs) and Microfinance Institutions in empowering women

POVERTY AND DEVELOPMENT ISSUES:

- Understanding the concept of poverty
- Definition and implications of development
- A comparative analysis of Sen vs Bhagwati models on development
- Challenges and dilemmas in achieving development
- Case studies illustrating specific poverty and development challenges
- Government's initiatives and strategies outlined in five-year plans.
- The role of civil society organizations in addressing poverty and development issues

EFFECTS OF GLOBALIZATION ON INDIAN SOCIETY

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

SOCIAL EMPOWERMENT

- Defining and comprehending the concept of social empowerment.
- The rationale behind the need for social empowerment.

- Efforts toward social empowerment through various five-year plans.
- Government initiatives aimed at promoting social empowerment.
- Analyzing the reality of social empowerment and India's experiences.
- Alternative approaches, players, and tools for achieving social empowerment, with relevant case studies.

COMMUNALISM

- Understanding the definition and essence of communalism.
- Tracing the historical roots and development of communalism
- Examination of recent incidents related to communalism.
- The involvement of third parties in fueling or perpetuating communalism.
- The legal framework and regulations pertaining to communalism.
- Contemplating the possibility of completely eradicating communalism from Indian society.

SECULARISM

- Defining the essence and significance of secularism.
- Analyzing secularism in the context of the Indian Constitution.
- Contrasting Indian and Western models of secularism.
- Gandhiji's perspective on religion and its relation to secularism.

- Exploring the philosophy of secularism as perceived in Indian thought.
- Identifying challenges and threats to the secular spirit.
- Evaluating the maturity of Indian democracy in handling the complexities of secularism.

REGIONALISM:

- Understanding the definition and essence of regionalism.
- Theoretical perspectives on regionalism.
- The diverse expressions of regionalism.
- The involvement and impact of various stakeholders.
- Recent events that have triggered a surge in regionalism.
- Potential strategies to address and mitigate the effects of regionalism.

INDIAN POLITY

HISTORICAL EVOLUTION & FEATURES

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

PREAMBLE

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

CITIZENSHIP:

- The fundamental aspects of citizenship as per the constitution.
- The procedures and methods for acquiring citizenship.
- The various ways in which Indian citizenship can be lost.
- The concept of dual citizenship and its implications.

- Specific provisions regarding citizenship in the region of Jammu and Kashmir.
- Privileges and special rights enjoyed by Indian citizens.
- The distinctions between Overseas Citizens of India (OCI) and Persons of Indian Origin (PIOs).

FUNDAMENTAL RIGHTS

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

DPSP

- Basic features
- Economic and Social DPSP
- Gandhian DPSP
- Administrative DPSP
- DPSP related to International Peace
- Implementation of DPSP
- Fundamental Rights and the Directive Principles of State Policy Controversy
- Directives outside Part IV of the Constitution
- Application of Uniform Civil Code in India

FUNDAMENTAL DUTIES

- Features
- Link of Fundamental Rights and Fundamental Duties

OTHER PRINCIPLES

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

SEPARATION OF POWERS

- Features in American and UK
- Constitution
- Checks and balances provisions in Indian Constitution

- Judicial Review
- Concept of Separation of Powers

COMPARISON OF THE INDIAN CONSTITUTIONAL SCHEME WITH THAT OF OTHER COUNTRIES

- It should cover comparison of USA UK, India and neighbors

UNION & STATES

- State Reorganization Commission
- Components of Indian territory
- Process of formation of new states
- Zonal Councils
- Union territories
- Special provisions for states
- Scheduled and Tribal Areas

FUNCTIONS AND RESPONSIBILITIES OF THE UNION AND THE STATES

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

ISSUES AND CHALLENGES PERTAINING TO THE FEDERAL STRUCTURE

- Administrative relations

- Legislative relations
- Financial relations
- Emergency Provisions and Misuse of Article 356
- Inter-State relations
- Issues related to Union List, State List & Concurrent List
- Issues related to appointment of Governor
- Issues related to state formation
- Poor devolution of finances
- Reserving bill for Presidential approval
- Central sponsored schemes and issues
- Special package for different states
- Issues between Centre and State after 1990 reforms
- Foreign policy and Centre and State Relations
- Inter-State border disputes

THE PRESIDENT:

- The significance of the President's role in the Indian political system.
- Qualifications required for becoming the President.
- The election procedure of the President.
- Examining the advantages and disadvantages of using the single transferable form of voting in the presidential election.
- The term of office and emoluments of the President.

- Analyzing the President's executive, legislative, emergency, financial, miscellaneous, and judicial powers.
- Understanding the process of impeachment of the President.
- The President's position as the nominal head of the country.
- The President's authority in making ordinances and the passage of bills.
- Assessing the potential misuse of emergency provisions.
- The President's power to grant pardons.
- The dynamics of a coalition government in relation to the President's role

VICE PRESIDENT:

- The office and functions of the Vice President.
- Comparing the roles of the Indian Vice President and the American Vice President.
- Prime Minister:
- The appointment process and functions of the Prime Minister.
- The Prime Minister's role with respect to the Council of Ministers, President, Lok Sabha, political party, and coalition government.

COUNCIL OF MINISTERS:

- The division of the Council of Ministers and their roles.
- The functions of the Council of Ministers and the Cabinet.
- Responsibilities of individual ministers.

ATTORNEY GENERAL OF INDIA:

- Qualifications required to hold the position of the Attorney General.
- Functions and powers of the Attorney General with respect to Parliament.

PARLIAMENT

- The composition of the Rajya Sabha and the Lok Sabha.
- Qualifications and disqualifications of MPs and MLAs.
- Rules for vacation of seats in Parliament.
- Information about Parliament sessions and the lawmaking procedure.
- The roles of officers in Parliament and State Legislature.
- Proceedings, motions, and resolutions in Parliament.
- Powers and privileges of Parliament.
- Financial proceedings in Parliament.
- A comparison between the Lok Sabha and the Rajya Sabha.
- Women's reservation in Parliament and associated issues.
- The impact of lowering parliamentary powers.
- The working of parliamentary committees.
- The relationship between judicial activism and Parliament.
- Delegated legislation and relevant concerns.

THE JUDICIARY

- Integrated judicial system
- Supreme Court
- Composition
- Independence of Supreme Court
- Jurisdiction of SC
- Judicial Review
- High Court
- Composition
- Terms and removal
- Jurisdiction
- Other powers
- Lower judiciary
- Appointment
- Powers
- Tribunal & Subordinate Courts
- The role of the Supreme Court of India as guardian of the Constitution and protector of Fundamental Rights
- Judicial Review
- PIL
- Judicial Activism
- Judiciary appointment
- Collegiums System
- NJAC Controversy
- National Court of Appeal
- Judicial Accountability
- Issues of corruption in judiciary
- Role of Women in Judiciary
- Need for Virtual Courts

GOVERNMENT

- Functioning of Ministries
- Central Secretariat
- Cabinet Secretary
- field organizations
- Reforms needed
- international methodology

LOCAL GOVERNMENT

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

DISPUTE REDRESSAL MECHANISMS AND INSTITUTIONS

- What is Dispute redressal mechanisms?
- Need of Dispute redressal mechanisms
- Administrative tribunal and issues
- Fast Track Courts and issues
- Gram Nyayalayas and issues
- Parivarik Mahila Lok Adalats and issues
- Family Courts and issues

- Lok Adalat and issues
- NALSA and issues
- Dispute redressal for Weaker section
- Arbitration Mechanism
- International Arbitration Centre
- Commercial Court

COMPTROLLER AND AUDITOR-GENERAL OF INDIA

- Appointment
- Functions
- Role of CAG in good governance

THE GOVERNOR

- Appointment, term of office, qualification,
- Powers
- Discretionary powers
- Ordinance making power
- Pardoning power of the Governor.

CHIEF MINISTER

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

THE ADVOCATE-GENERAL FOR THE STATE

- Appointment
- Functions
- State legislature

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

CONSTITUTIONAL BODIES

- Election Commission
- Union Public Service Commission
- State Public Service Commission
- Finance Commission
- GST Council
- National Commission for SCs and STs
- Special Officer for Linguistic Minorities

NON-CONSTITUTIONAL BODIES

- NITI Aayog
- National and State Human Rights Commission
- Central and State Information Commission
- Central Vigilance Commission
- Central Bureau of Investigation
- Lokpal and Lokayukta

VARIOUS CONSTITUTIONAL DIMENSIONS

- Co-operative Societies
- Official Languages under the Indian Constitution

POLITICAL DYNAMICS

- Provisions related to Political Parties
- Rise of Regional Parties in India
- Election Laws and Electoral Reforms in India
- Importance of NRI votes in Indian
- Election System
- Tenth Schedule of the Indian Constitution

GOVERNANCE AND SOCIAL JUSTICE

GOVERNANCE

NEED AND IMPORTANCE OF GOVERNMENT POLICIES

- Growth and development
- Human development and human capital formation
- Equality (interpersonal and interregional) and social justice
- Unity and integrity
- Trust between state and citizens
- Governance: Meaning and Scope
- Good Governance
- Contemporary debate around Governance and Good Governance

GOVERNMENT INTERVENTION:

- The role of institutions, bureaucrats, and other stakeholders in promoting good governance.
- Emphasizing transparency and accountability in government actions.
- Efficient utilization of resources through appropriate targeting, preventing leaks, curbing wasteful expenditure, and leveraging knowledge, research, and innovation.
- The importance of monitoring and evaluating outcomes, with techniques such as budgeting, zero base budgeting, input-output analysis, and cost-benefit analysis.
- Establishing institutions and regulatory norms, including task forces, steering committees, and review committees.

- Government interventions in emerging areas like social media, data, privacy, and the social sector.

SELF HELP GROUPS

- Meaning
- Importance
- Objectives
- Institutional Structure and organization
- Funding
- SHGs and Women
- SHGs and poverty
- SHGs and Rural Development

MICRO FINANCE

- Meaning and importance
- Objectives
- Structure and Organization
- Advantages
- Micro Finance in India

NON-GOVERNMENT ORGANIZATIONS

- What are NGOs?
- Difference between Non- Government Organizations (NGOs) and International Non-Government Organizations (INGOs)
- NGOs and development projects
- NGOs and Community development

- NGOs involved in relief and rehabilitation
- NGOs involved in disaster management
- NGOs and advocacy

IMPORTANT ASPECTS OF GOVERNANCE

- Citizen centric governance Features of good governance Legislative accountability administrative accountability Judicial accountability
- Ombudsman
- Whistleblowers concept
- Anti-corruption machinery
- Role of citizens
- Role of media
- Social audit
- Systematic reforms
- Social Media and Accountability/ Transparency/Governance
- Delegation
- Delegation vs decentralization Bottom-up governance.

E-GOVERNANCE

- Introduction
- Applications
- Models
- Successes
- Limitations
- Future prospects
- Dashboards and Portals of
- E-governance and E-government

- Uses/Impact/Analysis
- Democracy and E-governance
- E-governance and Judiciary
- E-governance and Legislatures

CITIZENS CHARTERS

- Introduction
- Models
- Features
- CC in India
- Issues in CC implementation
- Reform needed
- Sevottam Framework

ROLE OF CIVIL SERVICES IN A DEMOCRACY

- Concept of civil services
- Need for civil services
- Different role of civil services
- Law making
- Policy formulation
- Policy implementation
- Policy evaluation
- Civil services as protector of democracy
- To protect minorities (religious and linguistic)
- To promote Inclusive and sustainable growth
- Civil Services – Democracy dynamics
Emerging challenges for Civil Services
Reforms - Lateral Entry

- Capacity building of Civil Services (Past to Present) Autonomy Frequent transfers and security of tenure - concept/benefits/ analysis
- Cadre Policy
- Performance Appraisal and HR policies for Civil Services
- Civil Services Board

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

- What are pressure groups?
- Types
- The significance of pressure groups in India
- Differentiate between a pressure group and a political party
- Evaluation of pressure groups role
- Pressure groups and new media
- Politicization of Pressure Groups
- Role of pressure groups in governance Issues, pros, cons, challenges for Pressure Groups.

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

- Appointment of CAG (procedure of appointment) –
- composition of CAG
- Functions and responsibilities of CAG
- Powers and privileges of CAG (provided by constitution and different ACTs of Parliament.)

- Appointment of ECI (procedure of appointment) - composition of ECI
- Functions and responsibilities of ECI
- Powers and privileges of ECI (provided by Constitution and different acts of Parliament)
- Appointment to UPSC (procedure of appointment)- composition of UPSC
- Functions and responsibilities of UPSC
- Powers and privileges of UPSC (provided by Constitution and different Acts of Parliament.)
- Appointment to Finance commission (procedure of appointment)
- Composition of Finance Commission
- Functions and responsibilities of Finance Commission
- Powers and privileges of Finance Commission (provided by Constitution and different Acts of Parliament.)
- National Commission for SCs and STs.
- Other bodies - NGT, NHRC etc.
- Evaluation of Each body: History/ Evolution/ Pros/Cons/Issues/
- Challenges/Way Forward

STATUTORY, REGULATORY AND VARIOUS QUASI-JUDICIAL BODIES

- SEBI
- CVC
- CBI
- Planning Commission
- NDC
- PMO

- Zonal Council
- TRAI
- NCLAT
- IRDA
- National Human Rights Commission
- State Human Rights Commission
- Central Information Commission
- State Information Commission
- National Consumer Disputes Redressal Commission
- Tribunal
- Medical Council of India
- Pension Fund Regulatory and Development Authority
- Biodiversity Authority of India
- Press Council of India

ELECTIONS IN INDIA

- Salient features of the Representation of People Act, 1950
- Electoral reforms
- Criminalization of politics
- State funding of Elections
- Electoral Bonds

POLITICAL PARTIES IN INDIA

- Party reforms
- Problems in the working of parties
Casteism and politics
- Reforms in Party system in India
Strengthening of Anti-defection measures
- Coalition Governments and dynamics

ROLE OF PRESSURE GROUPS

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

LOCAL GOVERNMENT AND GOVERNANCE

- Issues of Funds, Functions and Functionaries.
- Local Government and Vulnerable Sections (SC/ST/OBC/Women/Transgenders/-Migrants/Children/ Disabled etc.)
- Local Government and emerging issues (Disaster Management, Technology)
- Localism
- Vulnerable Sections (issues/ challenges/ solutions/laws/ interventions)
- SC
- ST
- OBC
- Migrants
- Women
- Disabled
- Children
- Refugees
- Transgenders
- Manual Scavengers
- People with Special needs etc.

POVERTY, HUNGER AND HEALTH

- Poverty
- Hunger
- Health
- Malnutrition
- Unemployment
- Distress Migration
- Schemes - MGNREGA, PM POSHAN,
- Ayushman Bharat etc. Policies - NHP, NEP etc.

SOCIAL JUSTICE

WELFARE SCHEMES FOR VULNERABLE SECTIONS OF THE POPULATION BY THE CENTRE AND STATES

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

SERVICES RELATING TO HEALTH, EDUCATION, HUMAN RESOURCES

- Education structure in India
- Primary, secondary and higher education
- Initiatives taken by GOI in education Reforms needed
- Recommendations of committee's Future prospects in education sector Skill development
- Private and Public health structure
- NITI Aayog Report
- Economic development and human development
- SDGs and India

ISSUES RELATING TO POVERTY AND HUNGER

- Poverty definition by different committees
- Poverty data in India
- Causes of poverty
- Poverty and unemployment
- Poverty and social conflict
- Impact of LPG on poverty
- Rural poverty
- Urban poverty
- Feminization of poverty
- Poverty alleviation measures
- Problems in implementation of Poverty alleviation programmes.

THE SCHEDULED AND TRIBAL AREAS

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

VULNERABLE SECTOR

- Social Security Scheme
- Atal Pension Yojana
- Pradhan Mantri Jeevan Jyoti BimaYojana
- Pradhan Mantri Suraksha Bima Yojana

- Minorities
- Nai Roshni Scheme
- USTAAD Scheme
- Nai Manzil Scheme

WOMEN AND CHILD DEVELOPMENT

- Beti Bachao Beti Padhao
- Sukanya Samridhi Yojana
- Ujjawala Scheme
- Janani Suraksha Yojana
- Janani Shishu Suraksha Karyakram
- SC/ST
- Vanbandhu Kalyan Yojana

HEALTH

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

EDUCATION

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

RURAL & URBAN DEVELOPMENT

- Sansad Adarsh Gram Yojana

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

MISCELLANEOUS SCHEMES

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

INCLUSIVE GROWTH

- Measurement criteria
- Government initiatives for inclusive growth
- Sustainable Development

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



INTERNATIONAL RELATIONS

EVOLUTION AND KEY PRINCIPLES OF INDIAN FOREIGN POLICY

- Determinants of India's Foreign Policy
Factors determining India's Foreign Policy
- Non-Aligned Movement
- NAM 2.0
- Panchsheel
- India's Nuclear Doctrine
- Evolution of Neighborhood Policy Look East Policy, Act East Policy
- Look West Policy, Act West Policy
- Role played by Indian Diaspora

Bilateral Relations

INDIA & NEIGHBORS INDIA AND NEPAL RELATIONS

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

INDO-AFGHAN BILATERAL RELATIONS:

- A history of enduring and extensive bilateral ties between India and Afghanistan.

- The India-Afghanistan development partnership, highlighting collaborative efforts in various sectors.
- Strategic factors that form the foundation of India's partnership with Afghanistan, including mutual interests and regional stability.
- The evolving situation in Afghanistan following NATO's withdrawal.
- The presence and role of the Taliban.

INDIA-BANGLADESH RELATIONS:

- The development partnership between India and Bangladesh, reflecting their collaborative efforts for mutual growth and progress.
- India-Bangladesh relations align with India's 'Look East' policy, emphasizing stronger ties with East Asian countries.
- Agreements related to the boundary between India and Bangladesh, fostering a spirit of cooperation and resolving territorial issues.
- The ongoing Teesta River dispute, representing a significant challenge in bilateral relations.

INDIA-SRI LANKA RELATIONS:

- The focus on commercial relations between India and Sri Lanka, contributing to economic growth and mutual trade opportunities.
- Developmental cooperation efforts, showcasing India's support for Sri Lanka's social and economic development.

- The issue of fishermen straining bilateral ties between India and Sri Lanka.

INDIA-MYANMAR RELATIONS:

- The historical relationship between India and Myanmar.
- Recent policy changes in India's approach towards Myanmar, highlighting evolving priorities in the region.
- China's role in the dynamics between India and Myanmar, influencing regional geopolitics.

INDO-PAK RELATIONS:

- Cooperation between India and Pakistan, marked by both shared interests and historical disputes.
- Major crises that have impacted India-Pakistan relations over the years.
- Water disputes as a contentious issue between the two neighboring countries.
- Indian-Russia Relations:
- The strategic cooperation and partnership between India and Russia in various spheres, including defense and energy.
- Major concerns influencing the bilateral relationship.
- The impact of Russia-China relations on India's foreign policy considerations.

INDO-CHINA RELATIONS:

- Economic relations between India and China, exploring trade and investment opportunities.

- Water-related issues and concerns arising from shared rivers between India and China.
- China's "String of Pearls Strategy" and the implications it holds for India's security interests.
- The Maritime Silk Route and its potential effects on India's geopolitical position.
- The militarization of China's Belt and Road Initiative (BRI) and its implications for regional dynamics.
- Confidence Building Measures (CBMs) and border disputes in the Indo-China relationship.

SECURITY CHALLENGES IN THE INDIAN OCEAN REGION

- The Pivot to Asia – US Policy Shift
- South China Sea- Issues of Mistrust
- Piracy off the Coast of Somalia
- Neighborhood Issues and Terrorism
- Energy Routes
- Fisheries and Livelihood Issues
- Environmental Security
- Declaration of Indian Ocean as Zone of Peace

India and Asian Nations relations

INDIA–IRAN

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

INDIA-ISRAEL

- Israel and Palestine Conflict
- India-Israel Relations

INDIA-SAUDI ARABIA

- Areas of Cooperation
- Challenges in relations

INDIA-SOUTH EAST ASIA

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

INDO-JAPAN BILATERAL RELATIONSHIP

- Economy Centric Relationship
- Contemporary Perspective

INDIA-SOUTH KOREA

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

INDIA AND AFRICA

- Historical Connections
- Gandhi's Role
- Nehru's Role
- Strengthening of Ties
- South-South Engagement
- Current Dynamics
- Economic Cooperation
- Human resources development and capacity building
- Energy Cooperation
- Military Security Co-operation
- Trade Policy
- Afro-Indian Trade

- Indian investment in Africa
- African investment in India
- Development cooperation and assistance

INDIA-FRANCE

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

INDIA-UNITED KINGDOM

- India & UK Relations
- India & BREXIT

INDIA-USA

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

MULTILATERAL RELATIONS

THE WORLD TRADE ORGANIZATION (WTO):

- Representation of countries in the WTO
- The decision-making process within the WTO and how agreements are reached.
- The functions and responsibilities of the WTO Secretariat and its budget management.
- The process for countries to join the WTO and meet its membership requirements.
- Assistance provided by the WTO to developing and transition economies.
- The role of the WTO in shaping global economic policy-making.
- The Nairobi Package, which includes trade-related decisions adopted during the 10th WTO Ministerial Conference.
- The WTO's stance on protectionism and its efforts to promote free and fair-trade practices.
- The WTO's role in addressing intellectual property rights (IPR) issues.
- Proposed reforms to improve the functioning and effectiveness of the WTO.
- The relationship between the WTO and India and their engagement in trade-related matters.
- The concerns of developing nations, especially regarding agriculture, within the framework of the WTO.

- The impact of Free Trade Agreements (FTAs) on international trade and the WTO's stance on such agreements.

INTERNATIONAL MONETARY FUND

- International Monetary Fund (IMF)
- IMF Reforms

NUCLEAR SECURITY

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

BRICS

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

SAARC

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

GLOBAL INSTITUTIONS

- United Nations & its Bodies
- Structure of United Nations
- United Nations General Assembly
- United Nations Security Council (UNSC)

- India & UNSC
- Economic and Social Council
- International Court of Justice (ICJ)
- UN Specialized Agencies
- Food & Agriculture Organization
- International Civil Aviation Organization (ICAO)
- International Labor Organization (ILO)
- International Maritime Organization (IMO)
- International Telecommunication Union (ITU)
- United Nations Educational, Scientific and Cultural Organization (UNESCO)
- International Fund for Agricultural Development (IFAD)
- World Health Organization (WHO) and Question over its Credibility
- World Meteorological Organization (WMO)
- WIPO
- World Bank
- International Monetary Fund (IMF)
- Important Key Concepts
- New World Order
- Dynamics of New World Order
- New Cold War?
- Personality as factor in Indian Foreign Policy
- Economic Crises in Sri Lanka

INDIAN ECONOMY

INDIAN ECONOMY AND ISSUES RELATING TO PLANNING

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

- Economic Growth versus Economic Development
- Measures of Economic Development
- Human development index
- GDP
- Gender-related development index
- Poverty index
- Economic and Social Development in India: Millennium Development Goals
- Sustainable Development Goals and India
- Employment

RESOURCE MOBILIZATION

- Types of resources: Physical capital and finance capital
- Need for resource mobilization
- Sources of resource mobilization
- Public Sector and Private Sector Savings and investment over the five-year plan
- Budgetary resources: Tax and Non
- Role of Public Debt in resource mobilization and effects
- Role of fiscal and monetary policies in resource mobilization
- Role of foreign investment in resource mobilization

INCLUSIVE GROWTH AND ASSOCIATED CHALLENGES

- Definition and Notion of Inclusivity

- India's Experience and the Process of Inclusion in the Social Sector
- Realities on the Ground and Functioning of Key Initiatives
- Economic Expansion Rooted in the Rural Sphere
- Necessity for Sustainable Agriculture, Ensuring Food Security, and Building Resilience to Foster Growth
- Public Distribution Programs: A Pathway to Achieve Inclusive Development
- Financial Inclusion as a Catalyst for Promoting Inclusivity
- Strategies for Mitigating Poverty and Generating Employment to Foster Inclusive Progress
- Collaboration between the Public and Private Sectors to Promote Inclusive Development
- Employing Sectoral and Geographic Diversification as Tools for Advancing Inclusivity
- Governmental Policies and Initiatives Geared Towards Achieving Inclusive Growth
- Pradhan Mantri Jan Dhan Yojana MUDRA (Micro Units Development and Refinance Agency) Utilization (SETU) Skill India
- Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA)
- Kisan Card
- Pradhan Mantri Krishi Sinchayee Yojana (PMKSY)
- National Agriculture Market (NAM)

- Pradhan Mantri Jeevan Jyoti Beema Yojana
- Pradhan Mantri Jeevan Suraksha Yojana
- Atal Pension Yojana
- Digital India programme

GOVERNMENT FINANCIAL PLANNING

- Allocation of Funds
- Vocabulary Related to Budgeting
- Categories of Financial Plans
- Characteristics of Result-Oriented Financial Planning
- Integration of Railway and Overall Financial Plans
- Advantages of Financial Allocation
- Limitations in the Process of Financial Planning
- Examination of Budgetary Measures

INVESTMENT MODELS NEED FOR INVESTMENT

- Sources of Investment
- Measures of Investment
- Capital and investment
- Factors affecting investment
- Classification of Investment

TYPES OF INVESTMENT MODELS

- Domestic Investment Models
- Public Investment Model
- Private Investment Model
- Public Private Participation

- Investment Model Foreign Investment Models (FDI, FII, etc.)
- Role of State - PPP (Public-Private Partnership)
- Savings and Investment Trends

FISCAL POLICY

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

TAXATION

- Principles of Tax Collection
- Taxation for Gathering Finances
- Taxation Framework in India
Contemporary Tax Strategy in India
Financial Support
- Tax Restructuring
- Progress of Goods and Services Tax (GST)
- Retrospective Taxation in the Indian Context.

MONETARY POLICY IN INDIA

- India's Monetary Strategy Tools for Managing Monetary Policy
- Monetary Approach Before Economic Reforms

- Monetary Approach After Economic Reforms
- Recommendations from the Urjit Patel Committee
- Monetary Policy Committee and Targeting Inflation

FINANCIAL SYSTEM

- Indian Financial System: An Overview
- Components of the Indian Financial System
- Financial Institutions-Banking and Depository Institutions
- Non-Banking and Non-Depository Institutions
- Other Entities: (Regulatory, Intermediaries, Non-Intermediaries)
Financial Assets (Call Money, Notice Money, Term Money, Treasury Bills, CDs, Commercial Paper)
- Financial Services (Banking, Insurance, Investment, Forex) Financial Markets (Capital, Money, Forex, Credit)

BANKING SYSTEM IN INDIA

- Structure and Roles of Banking in India

TYPES OF BANKS IN INDIA

- Central Bank (Reserve Bank of India)
- Cooperative Banks
- Commercial Banks
- Public Sector Banks (e.g., State Bank of India)
- Private Sector Banks (e.g., HDFC Bank)
- Foreign Banks (e.g., CITI Bank)
- Regional Rural Banks

- Local Area Banks
- Specialized Banks (e.g., SIDBI NABARD)
- Small Finance Bank
- Payments Banks (e.g., Airtel Payment Bank)
- Bank Nationalization in India
- Banking Sector Reforms: Narasimhan Committee Nachiket Mor Committee, P J Nayak Committee)

DEVELOPMENT FINANCE INSTITUTIONS:

- IFCI, ICICI, SIDBI, IDBI, UTI, LIC, GIC
- New Bank Licensing Criteria
- Non-Banking Financial Companies (NBFCs)
- Financial Inclusion in India:
- PMJDY, Payment Banks, and Small Banks
- Non-Performing Assets (NPAs)
- Rise of Neo Banks
- Emerging Concept of Bad Banks
- Indian Insurance Sector Bank
- Privatization Account Aggregator
- System Domestic Systemically Important Banks (D-SIBs)

GLOBAL TRADE & INTERNATIONAL ENTITIES

- International Trade

INDIA'S BALANCE OF PAYMENTS

- Current Account
- Capital account
- Trade of Goods and Services

- Performance of India's Balance of Payments
- Comparison between Balance of Payments and Balance of Trade
- Distinction Between Current and Capital Accounts I
- Impact of Global Integration on the Indian Economy
- Foreign Direct Investment (FDI)
- Foreign Portfolio Investment (FPI) in India,
- Overseas Commercial Borrowing
- Foreign Exchange Rate Determination
- Types of Exchange Rate
- Capital and Current Account
- Convertibility in India
- The Bretton Woods Twins
- World Bank
- International Monetary Fund
- World Bank Group
- World Trade Organization (WTO) and India
- ADB, NDB, BRICS Bank, AIIB
- Bilateral, Regional and Global Groupings and Agreements involving India
- Important report.
- Antyodaya Anna Yojana (AAY),
- Direct Benefit Transfers
- National Food Security Act Agriculture
- Marketing key crops.

AGRICULTURE IN INDIA

THE CONTRIBUTION OF AGRICULTURE TO THE INDIAN ECONOMY

- Historical Context and Current Status
- Cropping Systems: Varieties – Mono-cropping, Crop Rotation, Sequential Cropping, Inter Cropping, Relay Cropping Direct
- Indirect Farm Subsidies and Minimum Support Prices
- Concerns and Consequences of Farm Subsidies in India:
- Meaning, Functioning, Rationale of subsidies
- Buffer Stocks Public Distribution System in India: Explanation, Issues, Functioning, Necessities,
- Disadvantages Targeted PDS,
- Diverse Cropping Patterns,
- Irrigation Types
- Produce Transportation and Marketing, Concerns,
- Technological Integration
- Definitive Land Title Registration
- Biotech-KISAN Initiative

LAND REFORMS

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

- Objectives of land reforms in India
- Progress of Land Reforms in India

IMPORTANT SCHEMES

- Pradhan Mantri Kisan Maandhan Yojana
- PM-Kisan Scheme
- Paramparagat Krishi Vikas Yojana (PKVY)
- Pradhan Mantri Krishi Sinchai Yojana (PMKSY)
- Rythu Bandhu Scheme

AGRICULTURAL CREDIT INSTITUTIONS

- Commercial Bank
- Lead Bank Scheme
- Multi Agency Approach
- Regional Rural Banks
- National Bank for Agriculture Rural Development (NABARD)
- Kisan Credit Card Scheme
- Self Help Group (SHG)
- Programme Rural Infrastructure Development Fund (RIDF)

CROP INSURANCE IN INDIA

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

SUBSIDIES

- Subsidy in India
- Farm Subsidies
- Fertilizer subsidies
- Subsidy on power
- Subsidy on irrigation
- Issues related to direct and indirect farm subsidies and
- minimum support prices
- Objectives of subsidies
- Issues of buffer stocks and
- food security Technology missions
- Economics of animal-rearing

PUBLIC DISTRIBUTION SYSTEM

- Objectives
- Functioning
- Limitations
- Revamping
- evolution from universal PDS to targeted PDS
- Buffer Stock policy and government's intervention in food market to keep prices under reasonable limits to help consumers
- Food Security bill
- Questions of resource mobilization for the FSB.

AGRICULTURE REVOLUTION IN INDIA

- Green Revolution
- White Revolution
- Yellow Revolution

- Blue Revolution
- Golden Fibre Revolution

FOOD PROCESSING AND ASSOCIATED INDUSTRIES

- Extent and Importance
- Geographical Distribution,
- Processed Food Landscape in Various Sectors.
- Government Actions and Measures.
- Progress in Building Food Processing Infrastructure.
- Challenges within the Food Processing Domain.
- Foreign Direct Investment (FDI) Regulations in Food Processing.
- Prominent Patterns in the Indian Food Processing Scene.
- Tactics Implemented through Budgetary Planning.
- Fresh Foreign and Domestic Investments.

INDUSTRIAL SECTOR

INDUSTRIAL POLICY AND ADVANCEMENT OF INDUSTRY: CENTRAL CONCERNS

- The Mahalanobis Approach and India's Industrial Policy
- Analyzing the 1948 and 1956 Industrial Policy Resolutions from a Critical Perspective.
- The New Economic Policy and Industrial Strategies Amidst Liberalization.
- Private Sector Involvement.
- Integration into the Global Market.
- Stages of Industrial Progress

KEY ASPECTS OF INDUSTRIAL ADVANCEMENT IN INDIA

- Roles of Private and Public Sectors
- Investment in Industry
- Strategies for disinvestment and privatization
- Role of Small, Medium and Micro enterprises,
- effects of globalization
- New Manufacturing Policy
- Industrial disbursal and Industrial corridors
- SEZs - Main issues like land use,
- relocation of same industries that exist
- exports earnings vs loss of tax income
- Industrial sickness
- institutional mechanism to support the sick industries, exit policy issues

- Main constraints in the industrial development of India
- Effects of globalization on industries Sub-prime crisis and sovereign debt
- Transformation of MSME sector and impact on India

INFRASTRUCTURE IN INDIA

EFFECTS OF INFRASTRUCTURE: ECONOMIC RAMIFICATIONS, INFLUENCE ON SOCIAL PROGRESS, ENVIRONMENTAL CONSEQUENCES

- Transportation Networks
- Ports and Their Impact
- Maritime Trade Routes
- Inland Waterway Systems
- Key Regions of Inland Waterways
- Road Networks and Their Importance
- Government Initiatives for Road Infrastructure
- National Infrastructure Pipeline
- Bharatmala Pariyojana
- Airports and Their Significance
- Air Routes and Factors Affecting Air Transport
- Railways and Factors Shaping Railroad Development
- Global Distribution of Railway Networks

ENERGY PIPELINE SYSTEM

- Transporting Energy via Pipelines
- Crude Oil Pipelines
- Natural Gas Pipelines
- Significance and Evolution of Transportation Networks
- Modes of Transportation
- Operational Costs in Transportation
- Government's Transport Policies

- Global Transportation Trends
- Transportation Costs and Specialization
- Transportation's Role in Contemporary Trade
- Transportation Costs and Economies of Scale
- Reduced Transportation Costs
- Detrimental Effects of Transportation
- Infrastructure as Investment Opportunities
- Public-Private Partnerships and Associated Matters
- Maintenance and Operation of Roads, Railways, Irrigation, and Power Projects – Principal Issues and Resolutions

IMPORTANT SCHEMES

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

SCIENCE AND TECHNOLOGY BIOLOGY

BIOLOGY

Chemical Building Blocks of Life

HISTORY AND ORIGIN OF LIFE

- Diversity of Living Things
- Classification and Domains of Life
- Viruses
- Prokaryotes
- Eukaryotes
- Protists
- Plants

LIFE'S EVOLUTION

- Evolution of Life Forms
- Evolution of Humans

GENETIC PRINCIPLES

- Inheritance Mechanisms
- DNA and RNA
- Gene Expression
- Control of Gene Activity
- Genetic Mutations

CELLULAR STRUCTURE

- Structure of Cells
- Cell Membranes
- Cell Communication
- Cellular Respiration
- Energy and Metabolism
- Cell Division
- Formation of Tissues

- Tissues
- Epithelial Tissues
- Connective Tissues
- Muscle Tissues
- Nervous Tissues

ORGAN SYSTEMS AND HUMAN PHYSIOLOGY

- Skeletal and Muscular Systems
- Reproductive System
- Excretion, Osmoregulation, and Thermoregulation
- Digestive System
- Immune System
- Nutrition

CLASSIFICATION BASED ON ENERGY AND CARBON SOURCE

- Plant Nutrition
- Animal Nutrition
- Human Dietary Patterns

PLANT PROCESSES

- Photosynthesis
- Cellular Respiration
- Plant Water Regulation
- Reproduction in Plants

IMAGING METHODS

- Computed Tomography (CT) Scan
- Magnetic Resonance Imaging (MRI)

- Positron Emission Tomography (PET)

BIOLOGICAL FUEL PRODUCTION

- Formation and Importance of Fossil Fuels
- Biofuels Derived from Biomass
- Biodiesel
- Natural Gas and Petroleum
- Hydrogen Generation

CHEMISTRY

- Atoms and Compounds
- Elements and Molecules
- Various States of Matter
- Structure of Atoms
- Metallurgy and Chemistry
- Metallurgical Processes
- Acids and Bases
- Electrochemistry Applications
- Solutions and Substances
- Characteristics of Solutions
- Chemicals in Daily Life
- Polymers and Biopolymers
- Biochemistry and Pharmaceuticals
- Chemistry of Pharmaceuticals
- Carbon and its Various Forms
- Hydrocarbons and their Derivatives
- Biomolecules
- Vitamins and Enzymes

PHYSICS

CHARACTERISTICS OF FUNDAMENTAL PARTICLES

- Basic Forces in Nature
- Energy and its Various Forms
- Study of Light and Optics
- The Electromagnetic Spectrum
- Theories and Laws in Physics,
- Including Relativity
- Concepts of Electromagnetism
- Heat and Thermodynamic Principles
- Understanding Waves
- Mechanical Wave Phenomena
- Electromagnetic Wave Behavior
- Exploring the Universe
- Big-bang theory and singularity
- Dark matter and energy
- Black holes
- Neutrino Observatory
- Gravitational Waves

BIOTECHNOLOGY

GENETIC ENGINEERING: PROCEDURE AND UTILIZATION

- Genomics Study
- Proteomics Study
- Varieties of RNA and Technological Applications
- Genome Sequencing and its Practical Uses

BIOTECHNOLOGY APPLICATION IN ENVIRONMENTAL CONTEXT

- Bio Composting
- Bioremediation
- Microbial Remediation
- Carbon Capture Techniques

PLANT BIOTECHNOLOGY

- Genetically Modified Plants
- Techniques and Uses of Plant Biotechnology
- Animal Biotechnology
- Genetically Modified Animals
- Techniques and Uses of Animal Biotechnology

BIOTECHNOLOGY'S ROLE IN FOOD AND BEVERAGE INDUSTRY

- Bioprocessing
- Bioreactors
- Enzyme Manipulation
- Food Processing
- Single Cell Protein Production
- Food Fortification

BIOTECHNOLOGY IN AGRICULTURE

- Genetically Modified Technology
- Genetically Modified Crops
- Plants Resistant to Pests

BIOTECHNOLOGY AND MEDICAL FIELD

- Gene Editing
- Gene Therapy
- Molecular Diagnostics
- Polymerase Chain Reaction (PCR)
- Enzyme-Linked Immunosorbent Assay (ELISA)
- Antibody-Antigen Interactions and Detection Methods
- Embryo Transfer Techniques
- Stem Cells and their Engineering
- Biopharmaceuticals and Therapeutic Proteins
- Brain Fingerprinting Technology

ETHICAL CONSIDERATIONS AND BIOPIRACY ISSUES

- Protocols for Biosafety
- Intellectual Property Rights (IPR) in Biotechnology
- Recent Developments and Current Trends in Biotechnology and its Practical Applications

HUMAN HEALTH AND DISEASES

HUMAN AILMENTS

- Ordinary Human Diseases and Their Responsible Agents
- Diseases Arising from Insufficient Nutrients
- Human Disease in Connection with Molecular Biology
- Disease Correlation with Chromosomal Inheritance
- Disease Correlation with Non-Chromosomal Inheritance
- Diseases Transmitted by Vectors
- Diseases Spread through Water
- Health Issues Stemming from Lifestyle

VACCINATION AND BUILDING IMMUNITY

- Vaccination Initiatives in India
- Pharmaceuticals
- Antibiotic Medications
- Drugs for Combating Viruses and Fungi
- Medical Treatment with Monoclonal Antibodies
- Challenges Related to Resistance to Antimicrobial Drugs
- Development of Drug Mixtures
- Drug Cost Structure in India
- Role of Genetics in Pharmacology

SPACE SECTOR

DIFFERENT TYPES OF ORBITS DIVERSE CATEGORIES OF LAUNCH VEHICLES AND THEIR USES SPACE EXPEDITIONS CONDUCTED BY PROMINENT SPACE AGENCIES

- NASA Space Missions
- Activities and Achievements of ISRO
- European Space Agency (ESA) Missions
- Russian Federal Space Agency (ROSCOSMOS) Endeavors
- Japanese Aerospace Exploration Agency (JAXA) Initiatives
- China National Space Administration (CNSA) Ventures
- ISRO's Contribution to National Advancement
- Private Sector Involvement in Space Activities
- Collaboration Between Public and Private Sectors in the Space Domain
- Space Technology Innovations
- Cryogenic Techniques
- Nanosatellites in Space Operations
- Electric Propulsion Utilization
- Satellite-Based Internet Communication with Starlink
- Satellite Communication Applications
- Remote Sensing and its Practical Uses
- Ground Segment Services in Space Domain
- Environmentally Friendly Propellant Options

- Deep Space Atomic Clock Implementation
- Strategic Implications in Space Domain
- Space Weaponry
- Anti-Satellite (A-SAT) Technology
- Laser Technology in Space Applications
- Hypersonic Glide Vehicle (HGV)
- Technology
- Global Collaboration in Space Endeavors
- Various Space Observatories Worldwide
- Assorted Telemetry Systems
- Navigation Systems in Space Domain
- Global Positioning System (GPS)
- Galileo Navigation System
- GLONASS
- IRNSS

DEFENCE

MISSILE SYSTEMS AND THEIR CATEGORIZATION BALLISTIC AND CRUISE MISSILES INDIA'S ARRAY OF MISSILES COMPREHENSIVE INITIATIVE FOR INTEGRATION OF GUIDED MISSILES PROGRAMS FOCUSING ON MISSILE DEFENSE

- Advancements in Defense Technology
- Incorporation of Robotics in the Defense Industry
- Utilization of Artificial Intelligence in Defense Operations
- Integration of the Internet of Military Things (IoMT) in the Defense Sector
- Cyber warfare, and preparedness Drone technology
- Unmanned Aerial Vehicle
- Stealth technology
- Advanced Defence Equipment
- Air Defence system
- 3-D printing missiles
- Lethal Autonomous Weapons
- Hypersonic technology
- Hypersonic glide vehicles
- Hypersonic cruise missile
- Armament Technology
- Conventional Arms
- Weapons Capable of Causing Mass Destruction
- Explosive Devices using Fission and Fusion
- Armament Utilizing Chemical Agents

- Warfare Equipment Employing Biological Agents
- Weapons Employing Directed Energy
- Restructuring of Defense Sector
- Chief of Defense Staff (CDS) Establishment
- Various Committees and Their Recommendations
- Spheres of Warfare
- Military Platforms
- Submersible Warships
- Vessels for Aircraft Transportation
- Combat-Ready Airplanes
- Military Organizations and Research Facilities
- Military Drills and Training Exercises

NUCLEAR ENERGY IN INDIA

- Varieties of Nuclear Reactions
- Nuclear Power and its Utilization
- Peaceful and Military Exploitation of Nuclear Power
- Materials Used for Nuclear Fission and Centrifugation
- Device for Harnessing Nuclear Energy
- India's Stance on Nuclear Energy
- Effects of Nuclear Radiation
- Consequences of Radioactive Waste
- Events Involving Nuclear and Radiological Catastrophes

NANO TECHNOLOGIES IN INDIA

BASICS OF NANO SCIENCE AND NANO TECHNOLOGY

- Nanomaterial
- Applications of Nano Technology
- Nano medicine
- Semiconductors and computing
- Food
- Textiles
- Sustainable energy
- Environment
- Transport
- Space
- Agriculture

IMPACTS OF NANO TECHNOLOGY

- Adverse Health and Environmental
- Social and Ethical Impacts
- Nano Science & Nano technology in India

INTELLECTUAL PROPERTY RIGHTS

- Definition of Intellectual Property Rights (IPR)
- Categories of Intellectual Property Rights
- Global Pacts and Organizations Dealing with IPR
- Intellectual Property Rights Framework in India
- India's Strategy for Safeguarding Intellectual Property Rights

ENVIRONMENT AND ECOLOGY

ECOLOGY

- Types of Ecology
- Ecological Hierarchy
- Scope of Ecology
- Habitat & Ecological
- Niche Ecological Principles
- Ecological Community
- Structure and Characteristics of a Community
- Ecotones
- Ecological Dominance
- Seasonal and Diurnal Fluctuation
- Ecological Succession
- Types and Process of Succession
- Climax Community
- Range of Tolerance, Maximum Range
- Difference between Ecology, Environment and Ecosystem

ECOSYSTEM AND ITS DYNAMICS

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

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

BIOGEOCHEMICAL CYCLES

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

BIOMES: FOREST, GRASSLAND

- Mountain, and Desert Ecosystems
- Biome
- Grasslands
- Tundra
- Deserts
- Thar desert
- Mountain biome

AQUATIC LIFE ZONES:

- Aquatic ecosystems
- Basic facts about the ocean

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

BASICS OF BIODIVERSITY

- Biodiversity
- Important kinds of biodiversity
- Endemic species
- Keystone species
- Indicator species
- Invasive species
- Allopatric and sympatric speciation
- Bioinformatics
- Biodiversity distribution
- State of global biodiversity
- Threats to biodiversity
- Biodiversity Hotspots
- Eco-regions
- Role of traditional knowledge in biodiversity

- Biopiracy
- Extinction of species
- IUCN Red-List of Threatened Species
- Level of biodiversity in India
- Biogeographical classification of India

BIODIVERSITY CONSERVATION

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

MINERALS AND ENVIRONMENTAL DETERIORATION

- Interaction Between Mining and the Environment
- Vulnerability of Specific Ecosystems to Mining Activities
- Effects of Mining
- Indirect Ramifications of Mining Operations
- International Regulations Regarding Mining
- Sustainable Mining Practices

DEFORESTATION

- Factors Behind Deforestation
- Consequences of Deforestation in Relation to Climate Change
- Impact of Deforestation on India's Wildlife
- Effects of Deforestation on the Indian Monsoon
- Influence of Deforestation on Human Populations
- Deforestation's Role in Erosion of Water and Soil Resources and Flooding
- Economic Ramifications
- Approaches to Mitigate Deforestation
- Government Initiatives for Forest Preservation
- Laws for Forest Conservation with Community Involvement
- Measures to Enhance Community Engagement in Forest Resource Management

- Utilization of Local Traditional Techniques

WASTE MANAGEMENT

- Solid Waste
- Hazardous Waste
- E-Waste
- Bio Medical Waste
- Plastic Waste
- Methods for Waste Management
- Landfill

SUSTAINABLE DEVELOPMENT

- Principles of sustainability
- Measurement of Sustainability
- Sustainable Ethics or Equitable Utilization of Natural Resource
- Challenges to Sustainable Development
- International Efforts to Achieve Sustainability

AIR POLLUTION

- Sources and effects of Air Pollution
- Classification of Air Pollutant
- Control Measures of Air Pollution
- National Ambient Air Quality Standards

WATER POLLUTION

- Sources and types of Water Pollution
- Effects of Water Pollution
- Water Quality Standards
- Control of Water Pollution

THERMAL POLLUTION

- Sources and effects of Thermal Pollution
- Control of Thermal Pollution

SOIL POLLUTION OR LAND DEGRADATION

- Sources of Soil Pollution
- Effects of Soil Pollution
- Control Measures

SOLID WASTE MANAGEMENT

- Sources and effects of Solid Waste
- Control Measures of Solid Waste
- Solid Waste Management Rules
- Hazardous Waste Management (HWM)

COASTAL ECOSYSTEM MANAGEMENT

- Mangroves
- Salient features of Mangroves
- importance of Mangroves
- Mangroves under threats in India

LEGAL AND REGULATORY APPROACHES FOR PROTECTION

- Estuaries
- Importance of estuaries
- Threats to estuaries
- Coral Reefs
- Uses of coral reefs
- Conservation of coral reef
- steps for Coastal Ecosystem Management

ENVIRONMENTAL IMPACT ASSESSMENT

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

ENVIRONMENTAL LAWS

- Provisions in the Indian Constitution towards Environmental Protection
- Salient Features of Air (Prevention and Control of Pollution) Act, 1981
- Salient Features of Water (Prevention and Control of Pollution) Act, 1974
- Salient features of Forest Conservation Act, 1980
- Salient Features of Wildlife Protection Act, 1972
- Salient Features of Environment (Protection) Act, 1986
- Role of Government in Environmental Protection

ENVIRONMENT RELATED INSTITUTIONS AND ORGANIZATIONS

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

ENVIRONMENTAL SCHEMES

- Ecomark Scheme
- National Afforestation Program
- National River Conservation Plan
- National Mission for Clean Ganga

- National Air Quality Index (AQI)
- National Action Programme to
- Combat Desertification
- UJALA Scheme
- Bharat Stage Norms

INTERNATIONAL ENVIRONMENTAL GOVERNANCE

- UNEP
- UNDP
- Centre for Biological Diversity
- WWF for Nature
- IUCN - Red List
- Birdlife International
- International Conventions/Protocol

BASICS OF CLIMATE CHANGE

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

IMPACT OF AGRICULTURE ON CLIMATE

- Agriculture increases CO2 Emissions
- Monoculture practice impacts biodiversity
- Pollution due to use of chemical fertilizers

- Soil-related effects
- Fertilizer's Effect on the Environment
- Impact of livestock on environment
- Impact of use of pesticides on environment
- Impact of GM crop on environment
- Emission of Methane from agricultural practices
- Sustainable Agriculture Techniques

INTERNAL SECURITY

CHALLENGES TO INTERNAL SECURITY

- Social Diversity as a Security Concern
- Examining Internal Security Concerns Stemming from Immediate Neighbors
- Threats Posed by Non-State Entities within Borders
- Global Metrics for State Vulnerability to Non-State Actors
- Balancing Law and Order with Internal Security

TERRORISM'S IMPACT ON INDIA

- Evolving Nature of Terrorism
- The Shifting Landscape of Terrorism and its Ramifications
- Terrorist Threats Confronting India
- Holistic Framework for Combating Terrorism
- Shortcomings in Intelligence Infrastructure

ORGANIZED CRIME

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

SPREAD OF EXTREMISM

- Why naxalism got huge support from common man?

- Why naxalism is biggest threat to internal security?

BASICS OF CYBER SECURITY

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

RECENT ISSUES

- Cyber Warfare
- Social Media and Internal Security Threat
- Money Laundering
- Black money in India

POLICE REFORMS IN INDIA

- The Organizational Structure
- Duties and Responsibilities of the
- Centre's Role in Policing
- Traditional Security Challenges
- Non-Traditional Security Challenges (NTS)
- Recommendations for Police Reforms

VARIOUS SECURITY FORCES AND THEIR MANDATE

- Assam Rifles
- Border Security Force (BSF)
- Indo-Tibetan Border Police
- Central Industrial Security Force (CISF)

- Central Reserve Police Force
- National Security Guard
- Integrated theatre commands National Maritime Security
- Coordination Issues with Paramilitary Forces

DISASTER MANAGEMENT

- Natural & Man-Made Disasters
- Types of disasters
- India's vulnerability profile
- Earthquakes
- Tsunamis
- Landslides
- Flood
- Drought
- Epidemics
- Nuclear Reactor explosion
- Dam collapse
- Oil Spill
- Volcanic Eruption
- Forest fires
- Disaster Management,
- Preparedness & Mitigation
- Management of disasters
- Community management
- Government initiatives to tackle disasters
- National disaster management act, 2005
- Global framework for disaster risk management
- Role of media in disaster Gender implications of disasters
- Disaster management cycle
- Role of NGOs in disaster management
- Pre-disaster preparation

ETHICS INTEGRITY AND APTITUDE

BASIC VALUES

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

HUMAN VALUES

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

- Inculcating Values
- Aesthetic values
- Values in work life and professional ethics

APTITUDE AND FOUNDATIONAL VALUES OF CIVIL SERVICES

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

India & World Thinkers/Leader /Administrators

ATTITUDE

- Components of Attitude
- Affective component
- Cognitive component
- Behavioral component
- Functions of Attitude
- Adjustive Function

- Ego-Defensive Function
- Value-Expressive Function
- Knowledge Function
- Attitude Formation Model
- Impact of Beliefs and Values
- Social Influence
- Persuasion Tactics
- Tools of Persuasion
- Moral Attitude formation
- Political Attitude formation

EMOTIONAL INTELLIGENCE

- Theories Linked to Emotional Intelligence
- Is Emotional Intelligence Cultivable?

EMOTIONAL COMPETENCIES

- The Self-Awareness Group: Grasping Emotions and Precise Self-Evaluation.
- The Self-Management Group: Handling Internal States, Urges, and Assets.
- The Social Awareness Group: Accurately Perceiving Individuals and Collectives
- The Relationship Management Group: Eliciting Favorable Reactions in Others
- Significance of Emotional Intelligence in the Workplace
- Significance of Emotional Intelligence in Civil Services.

VALUES & ETHICS IN PUBLIC ADMINISTRATION

- Ethical Concerns in Public Institution

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

PROBITY IN GOVERNANCE

- Public Service Concept
- Philosophical Foundation of Governance and Integrity
- Sharing Information, Transparency, and Right to Information
- Weaknesses in RTI and Suggestions for Enhancement
- Significance of Vigilant Citizens
- Information Sharing and Participation
- Importance of Code of Ethics

- Code of Ethics in Professions
- Codes of Conduct for Ministers, Legislators, Civil Servants, Regulators, and Judiciary
- Elements of a Citizen Charter
- Steps in Crafting a Citizen's Charter
- Work Culture Concept
- The Indian Perspective on Work
- Enhancing Work Culture Methods
- Quality of Service Delivery
- Efficient Utilization of Public Funds
- Challenges in Fund Allocation and
- Parliamentary Oversight on Expenditure
- Corruption in India: Extent, Nature, and Countermeasures
- Corruption as a Social Malady
- Integrity in Public Life: Corrupt Practices among Civil Servants and Official Misconduct
- Revealing Corruption: Initiatives by Civil Society and the Role of Whistleblower Act
- Addressing Corruption: Government's Role and Governance Institutions
- Combatting Corruption: Diverse Strategies and Their Effectiveness

Applied Ethics

EUTHANASIA DEBATE

- Social and Ethical Perspective
- Various Euthanasia Arguments
- Summary

SURROGACY

- Ethical Aspects of Surrogacy

ETHICS AND ATHLETICS

- Significance of Sports
- Ethical Matter: The Requirement for Sportsmanship
- Ethical Matter: Doping
- Ethical Matter: Discrimination and Sexual Harassment
- Ethical Matter: Commercialization of Sports
- Necessary Measures

MEDIA ETHICS

- Media's Function
- Moral Challenges Encountered by Journalists
- Media's Influence on Legal Proceedings
- Media Bias
- Ethics in the Digital Media Sphere
- Paid News Business Ethics

ETHICAL BUSINESS CONDUCT

- Aspects Concerning Business Ethics within Organizations
- Intersection of Business Ethics and Corporate Governance
- Progression from Charity to Corporate Social Responsibility
- Considerations involving Corporate Social Responsibility.

ENVIRONMENTAL ETHICS

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

ETHICAL ISSUES IN BIOTECHNOLOGY

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

ANIMAL ETHICS

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

ETHICAL ASPECT IN CHILD LABOUR

- Children's Rights
- Child Labor and Business
- Resolution

ETHICAL ASPECT IN TREATING MINORS AS ADULTS

- System of Juvenile Justice
- Detrimental Consequences Ethics Concerning Aging
- Moral Dilemmas
- Challenges Faced.

ETHICS IN RELATIONSHIPS - PUBLIC AND PRIVATE

- Moral Values in Private Relationships

- Ethical Guidelines in Public Relationships
- Interconnection between Private and Public Relationships.