

UPSC Syllabus (Explained)

Micro Topics Listing

Pre cum Mains

TESTIMONIALS

“ Being in job of IRS, time management was extremely challenging. I express my immense gratefulness towards GS Score and Manoj Jha Sir for providing me best possible support in my success journey



Pratibha Verma
Rank 3

“ I am highly obliged towards GS SCORE for its best evaluation and assessment mechanism which helped me to crack UPSC in first attempt.



Mandar Patki
Rank 22

“ Answer writing is always considered as a vital part for success in UPSC. GS Score helped me in building a strong and solid foundation for development of answer writing skills. Thank You!



Hinanshu Gupta
Rank 27

“ Cracking UPSC was my childhood dream and I am highly thankful towards GS Score for guiding me in this journey. And special thanks to Manoj Jha Sir



Chandarjyoti Singh
Rank 28

“ I am very much Thankful to GS Score for building my capacity of Answer Writing Skills. Value addition, mentoring and personal evaluation by Piyush Choubey Sir did help a lot.



Pari Bishnoi
Rank 30

“ Managing sincere attempt while being in service of IPS was very tedious job. But GS Score helped me a lot in my smart preparation. I will always be thankful to Manoj Jha Sir for his mentoring.



Dipankar Chaudhary
Rank 42

“ History Optional was not an easy nut to crack. I express my sincere gratitude towards GS SCORE and Piyush Yadav Sir who helped me to to sail through the rough water of UPSC.



Ashutosh Kulkarni
Rank 44

“ Being from family of Civil Servants, UPSC was a childhood dream for me. I express my humble gratitude towards Manoj Jha Sir for building my confidence in Ethics Paper.



Aranyak Saikia
Rank 59

“ UPSC style mock papers coupled with evaluation by faculty members of GS SCORE themselves enhanced my confidence to write answers as per the demand. I am



Chandrima Attri
Rank 72

“ I would always find lack of substance to fill my pages in Ethics and Essay. Manoj Jha Sir squarely took care of this. Thank you Sir!



Madhumita
Rank 86

“ Cracking UPSC in first attempt is considered as achievement within achievements. Thank You GS SCORE for the right guidance at right time.



Muskan Jindal
Rank 87

“ I am extremely grateful to GS SCORE for the guidance in improving my MCQs solving temperament which helped me to crack UPSC in my first attempt.



Shikhar Choudhary
Rank 97

HISTORY

ANCIENT HISTORY

1. Pre Historic Cultures In India

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

2. Pastoral and Farming Communities

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

3. Indus Valley Civilization

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

4. Vedic Society

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

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

5. Pre Mauryan Period

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

6. The Mauryan Empire

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

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

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

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

8. Growth of Jainism and Buddhism

- ▶ Jainism
- ▶ Buddhism

9. Imperial Guptas

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

10. Harshavardana

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

11. The Southern Dynasties

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

MEDIEVAL INDIA

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

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

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

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

3. Struggle for Empire in North India

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

4. The Establishment of the North Indian Empire

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

5. Consolidation and Expansion of the Empire - Akbar

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

6. State and Government under Akbar

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

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

7. Akbar's Religious Views

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

8. The Deccan and the Mughals (Upto 1657)

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

9. Foreign Policy of the Mughals

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

10. India in the First Half of the Seventeenth Century

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

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

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

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

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

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

13. Society-Structure and Growth

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

14. Economic Life-Patterns and Prospects

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

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

15. Religion, Fine Arts, Science and Technology

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

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

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

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

17. The Maratha Bid for Supremacy

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

MODERN HISTORY

1. Scenario before 1857

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

2. Revolt of 1857

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

3. The struggle for Swaraj

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

4. Intimation of freedom

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

5. Towards achievement of freedom

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

6. Partition of India

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

7. During the freedom struggle

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

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

POST INDEPENDENCE INDIA

1. Re-organisation of states

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

2. Linguistic Regionalism In India

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

3. Tribal Issue And Policy Consolidation

- ▶ Issues & Present Status
- ▶ Policy consolidation

4. Issue Of Women And Evolution Of Women Movement

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

5. Problem Of Caste And Social Consolidation

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

6. Communalism & Social Consolidation

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

7. Issue Of Linguistic Minorities

- ▶ Operational Inefficiency
- ▶ Government initiatives

8. Overview Of Economic Development Since Independence

- ▶ Planning in India

9. Agriculture

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

10. Industry

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

11. New Economic Policy

- ▶ Impact of New Economic Policy

12. Post Independence Policy Of Science And Technology

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

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

WORLD HISTORY

1. Beginning of Modern Age

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

2. French Revolution

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

3. Nationalism in Europe

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

4. Colonialism and Imperialism

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

5. Emergence of USA

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

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

6. World War-I

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

7. Russian Revolution

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

8. Inter-War Years (1919 To 1939)

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

9. World War- II

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

10. Development In Middle East

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

11. Cold War

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

12. Post Cold-War World

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

13. Communism, Socialism and Capitalism

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

INDIAN CULTURE**1. Visual Art**

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

2. Architecture in Ancient India

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

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

3. Indo-Islamic Architecture

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

4. Modern Architecture

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

5. Indian Paintings

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

6. Pottery Tradition in India

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

7. Music in India

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

8. Dances in India

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

9. Martial Arts in India

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

10. Indian Theatre

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

11. Indian Puppetry

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

12. Indian Cinema

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

13. Religions in India

- ▶ Pre-Vedic Religion
- ▶ Hinduism

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

14. Bhakti & Sufi Movements

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

15. Languages & Literature in India

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

16. Miscellaneous Topics

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

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

17. Recent developments

- ▶ 'The Miyas of Assam, and their char-chapori culture'
- ▶ "Life in Miniature' Project'
- ▶ Ayodhya's Ram Temple, a 3-Storey Structure with Nagara Style Architecture

- ▶ National List of Intangible Cultural Heritage (ICH)
- ▶ Kurzarbeit Scheme
- ▶ Central Sanskrit Universities Bill, 2020
- ▶ Battle of Çanakkale
- ▶ The five 'iconic' archaeological Sites mentioned in the Budget
- ▶ Battle of Koregaon
- ▶ Tulu Language

 *Remarks*

GEOGRAPHY

PHYSICAL GEOGRAPHY

1. Geomorphology

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

▶ Geology

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

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

- ◆ Valleys – V Shape , Gorge(Hard Rocks) , Canyon (Sedimentary)
- ▢ Potholes & Plunge pools
- ▢ Incised or entrenched meanders
- ▢ River Terraces – paired & unpaired
- Depositional Landforms
 - ▢ Alluvial Fans
 - ▢ Delta
 - ▢ Flood Plains , Natural Levees, Point Bars
 - ▢ Meanders , Slip off bank , Under cut bank
 - ▢ Oxbow lake
 - ▢ Braided Channels
- Ground Water (Karst Topography)
 - Permeable Rocks
 - ▢ Percolation
 - ▢ Bedding Plains
 - Limestone and Dolomite Regions
 - ▢ Balkans , Adjacent to Adriatic regions
 - Erosional Landforms
 - ▢ Pools-Swallow Hole, Valley Sinks (Uvalas), Sinkholes, Collapse sinks (Dolines), Lapias, Ridges , Limestone Pavements
 - ▢ Caves – Altering bed of Rocks (Shale sandstone quartzite), Caves and Tunnels
 - Depositional landforms
 - ▢ Stalactites
 - ▢ Stalagmites
 - ▢ Pillar Columns
- Glaciers
 - Erosional Landforms
 - ▢ Cirque of Tarn Lakes
 - ▢ Horns and Serrated Regions – Arete
 - ▢ Glacial Valleys / Troughs – Fjords
 - Depositional Landforms
 - ▢ Glacial Till
 - ▢ Moraines
 - ▢ Eskers
 - ▢ Outwash Planes
 - ▢ Drumlins
- Waves and Currents
 - High Rocky Coasts & Low Sedimentary Coasts
 - Erosional Landforms
 - ▢ 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 Chemical Action
 - ▢ Solution
 - ▢ Carbonation
 - ▢ Hydration
 - ▢ Oxidation & Reduction
 - Physical Forces Gravitational , Expansion , Water Pressure
 - ▢ Unloading & Expansion
 - ▢ Temperature changes and Expansion
 - ▢ Freezing , Thawing , & Frost Wedging
 - ▢ Salt Weathering
 - Biological Weathering
 - ▢ Burrowing
 - ▢ Wedging
 - ▢ Plant Roots
 - ▢ Effects of Weathering
 - ▢ Exfoliation(Flaking)– Exfoliation Domes , Tors
 - Significance of Weathering
 - ▢ Soil Formation
 - ▢ Biomes and Biodiversity
 - ▢ Leaching / Enrichment
- Mass Movements
 - Activating causes
 - Forms of movement – Heave Flow Slide
 - 3 major Groups – Slow Movement , Rapid Movements , land Slides
- Landforms across the world:
 - Rivers and lakes
 - Mountain and Peaks
 - Plateaus

2. Climatology

- ▶ **Composition**
 - Gases
 - Water Vapour
 - Dust Particles
- ▶ **Structure**
 - Exosphere
 - Thermosphere
 - Mesosphere
 - Stratosphere
 - Troposphere
 - Altitude vs Temperature
- ▶ **Solar Radiation Heat Balance Temperature**
 - Insolation
 - Aphelion and Perihelion
 - Variability of Insolation at the surface of the Earth
 - Day Season Year
 - Rotation on Axis , Angle of Inclination of sun rays , Length of the day
 - Transparency of Atmosphere, configuration of land in terms of its aspect.
- ▶ **Heat Balance**
 - Heating and cooling of atmosphere
 - Conduction
 - Convection
 - Advection
 - Terrestrial Radiation
 - Heat Budget of the Planet Earth
 - Macro Budget
 - Albedo
 - Shortwave Radiation
 - Long wave Earth Radiation
 - Variation in the net Heat Budget at the Earth's Surface
- ▶ **Temperature**
 - Factors controlling T distribution
 - Distribution of T Month of January-July
 - Range of T Month of January-July
 - Inversion of Temperature
- ▶ **Atmospheric Circulation and Weather Systems**
 - Atmospheric Pressure
 - Vertical variation of pressure
 - Horizontal distribution of pressure
 - World Distribution of Sea Level Pressure
 - Factors affecting the velocity and direction of the WIND
- Pressure Gradient Force
- Frictional Force
- Coriolis Force
- Pressure and Wind (Cyclonic & Anticyclone Circulation)
- ▶ **General Circulation of the Atmosphere – Pattern of Planetary Winds**
 - Latitudinal Variation of Atmospheric Heating
 - Emergence of Pressure Belts
 - Migration of Belts Following apparent Path of Sun
 - Distribution of continents & Oceans
 - Rotation of the Earth
- ▶ **Circulation**
 - Simplified Global Circulation – Hadley Cell, Ferrel Cell
 - Seasonal Wind
 - Local Wind
 - Land and Sea Breezes
 - Mountain and Vally winds
 - AIR MASS – fronts
 - Extra Tropical Cyclone
 - Thunderstorms
 - Tornadoes
- ▶ **Water in the Atmosphere**
 - Water Vapour
 - Precipitation
 - Humidity – Absolute and Relative
 - Saturation – Dew Point
 - Evaporation and Condensation
 - Dew
 - Frost
 - Fog & Mist
 - Clouds
 - Types – Cirrus Cumulus Stratus Nimbus
 - High – Cirrus Cirrostratus Cirrocumulus
 - Middle – Altostratus Altocumulus
 - Low – Stratocumulus Nimbostratus
 - Vertical Development – Cumulus and Cumulonimbus
 - Precipitation
 - Rainfall Snowfall Sleet Hail Hailstones
 - Types of Rainfall
 - Conventional
 - Orographic
 - Cyclonic
 - World Distribution of Rainfall

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

3. Oceanography

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

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

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

4. Water Resource

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

5. Biogeography

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

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

HUMAN GEOGRAPHY

1. Demography

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

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

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

2. Urbanization

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

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

3. Census

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

ECONOMIC GEOGRAPHY

1. Agriculture

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

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

- Institutional Factors as land reform
- Horticulture sector in India
- Agricultural revolutions
- Agricultural labours
- Price Policy for Agriculture
- Agricultural marketing
- Agricultural Insurance
- Agricultural Census
- Major schemes in agricultural sector
- National Policy for farmers
- Impact of climate change on agriculture
- What is sustainable agriculture?
- Use of IT in agriculture
- Agriculture Issues and Challenges
- ▶ **Productivity of Crops and conditions for growth**
- Wheat
 - Conditions of growth
 - Varieties
 - Types of cultivation
 - Production pattern
 - International trade
- Rice
 - Conditions of growth
 - Varieties
 - Methods of cultivation
 - Production pattern
 - International trade
- Maize (Corn)
 - Conditions of growth
 - Production pattern
 - International trade
- Barley
 - Conditions of growth
 - Production pattern
 - International trade
- Oats
- Rye
- Beverages
 - Tea
 - Condition of growth
 - Production pattern
 - International trade
 - Coffee
 - Types of coffee
 - Conditions of growth
 - Production pattern
- International trade
 - Cocoa
 - Conditions of growth
 - Production pattern
 - International trade
 - Tobacco
 - Conditions of growth
 - Production pattern
 - International trade
 - Fibre Crops
 - Cotton
 - Varieties of cotton
 - Conditions of growth
 - Production pattern
 - International trade
 - Jute
 - Conditions of growth
 - Production pattern
 - International trade
 - Substitutes of Jute: Flax, Hemp
 - Abaca, Henequeno
 - Sisal
 - Raw Silk
 - Production pattern
 - International trade
 - Natural Rubber
 - Other sources of rubber
 - Plantations in South-east Asia
 - Production pattern
 - International trade
 - Sugarcane
 - Conditions of growth
 - Production pattern
 - International trade
 - Sugarbeet—Conditions of growth
 - Production pattern
 - Sugar industry
 - Sugar consumption
 - International trade

2. Mineral resource

- ▶ Types of minerals: Metallic minerals
- ▶ Non-metallic mineral
- ▶ Distribution of minerals and mining regions
- ▶ Distribution, production and international trade of Metallic minerals: Ferrous metals: Iron ore

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

3. Energy resources

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

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

4. Industry

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

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

RECENT DEVELOPMENTS

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

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



Remarks

INDIAN SOCIETY FEATURES & SOCIAL JUSTICE

INDIAN SOCIETY

1. Salient features of Indian society

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

2. Diversity of India

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

3. Role of women's organizations

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

4. Poverty and development issues

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

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

5. Effects of globalization on Indian society

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

6. Social empowerment

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

7. Communalism

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

8. Secularism

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

9. Regionalism

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

SOCIAL JUSTICE

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

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

2. Services relating to Health, Education, Human Resources

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

- ▶ Reforms needed
- ▶ SDGs and India

3. Issues relating to poverty and hunger

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

4. The Scheduled And Tribal Areas

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

WELFARE SCHEMES

1. Start-up and Skill Development

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

2. Vulnerable Sector

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

3. Health

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

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

4. Education

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

5. Rural & Urban Development

- ▶ Sansad Adarsh Gram Yojana
- ▶ Gram Uday Se Bharat Uday Abhiyan
- ▶ Shyama Prasad Mukharjee Rurban Mission
- ▶ Deendayal Upadhyaya Gram Jyoti Yojana
- ▶ Pradhan Mantri Gram Sadak Yojana
- ▶ 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 Development and Augmentation Yojana
- ▶ Amrut (Atal Mission for Rejuvenation and Urban Transformation)

6. Miscellaneous Schemes

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

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

7. Inclusive growth

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

8. Rural Development

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

9. Social Sector Bills

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

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

SOCIAL ISSUES IN NEWS

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

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

 *Remarks*

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POLITY & GOVERNANCE

POLITY

1. Historical Evolution & Features

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

2. Preamble

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

3. Citizenship

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

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

4. Fundamental Rights

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

5. DPSP

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

6. Fundamental Duties

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

7. Other Principles

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

8. Separation of Powers

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

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

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

10. Union & States

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

11. Functions and responsibilities of the Union and the States

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

12. Issues and challenges pertaining to the federal structure

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

13. The President

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

14. Vice President

- ▶ Office of the Vice-President
- ▶ Functions

15. Prime Minister

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

16. Council of Ministers

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

17. Attorney General of India

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

18. Parliament

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

19. The Union Judiciary

- ▶ Integrated judicial system
- ▶ Supreme Court

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

20. Ministries and Departments of the Government

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

21. Panchayats

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

22. Dispute redressal mechanisms and institutions

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

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

23. Comptroller And Auditor-General Of India

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

24. The Governor

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

25. CM

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

26. The Advocate-General for the State

- ▶ Appointment
- ▶ Functions

27. State legislature

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

GOVERNANCE

1. Need and importance of Government Policies

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

2. Effective Implementation

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

3. Government intervention

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

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

4. Development process and industry

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

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

5. Important aspects of governance, transparency and accountability

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

6. e-Governance

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

7. Citizens Charters

- ▶ Citizens Charters
- ▶ Introduction
- ▶ Models

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

8. Role of civil services in a democracy

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

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

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

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

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

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

11. Statutory, regulatory and various quasi-judicial bodies

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

12. Elections in India

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

13. Political Parties in India

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

14. Role of Pressure Groups

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

RECENT DEVELOPMENTS

- ▶ Call to bring Arunachal Pradesh under the ambit of the Sixth Schedule'
- ▶ 'Article 32 and its ever changing interpretation'
- ▶ Coalition Government as strengthening force to democracy
- ▶ Daughter's equal right to ancestral property: SC'
- ▶ 'Concern about democracy in the digital age'
- ▶ National Company Law Appellate Tribunal (NCLAT)
- ▶ 'The unrest on the Assam-Mizoram border'

- ▶ In Economist's Democracy Index, India at its lowest ranking ever
- ▶ Internet shutdowns
- ▶ 'Centre allows additional borrowing by five states'
- ▶ National Statistical Commission (NSC) Bill 2019
- ▶ 'Shaheen Bagh case: Public spaces cannot be occupied indefinitely, says SC'
- ▶ Proposed changes in definition of NRIs
- ▶ 'State Cabinet nod to make Bodo, the associate official language of the State'
- ▶ How a language is declared 'classical' in India, what benefits it enjoys?

- | | |
|--|--|
| <ul style="list-style-type: none"> ▶ 'Armed Forces Tribunal' <input type="checkbox"/> ▶ "Unparliamentary" speech and conduct in Parliament' <input type="checkbox"/> ▶ 'States mandated to set up panel on Content Regulation of Govt Ads' <input type="checkbox"/> ▶ 'Involuntary narco tests an intrusion into a person's mental privacy: Supreme Court' <input type="checkbox"/> ▶ 'Three capitals for Andhra Pradesh — it's logic and the questions it raises' <input type="checkbox"/> ▶ 'Plea on 'Office of Profit' dismissed by President' <input type="checkbox"/> ▶ Grants-in-aid to Rural Local Bodies in 28 States <input type="checkbox"/> ▶ "Criminalisation of Politics" <input type="checkbox"/> ▶ 'New Rules for Postal Ballot' <input type="checkbox"/> ▶ 'Government plans to bring social security schemes under one umbrella' <input type="checkbox"/> | <ul style="list-style-type: none"> ▶ 'Private Property is a human right: SC' <input type="checkbox"/> ▶ Uniform Civil code - the debate, the status <input type="checkbox"/> ▶ e-Lok Adalats <input type="checkbox"/> ▶ Plea is SC challenging imposing of 'Hindi' as official court language <input type="checkbox"/> ▶ Centre-State disputes and Article 131 <input type="checkbox"/> ▶ 'National Recruitment Agency' <input type="checkbox"/> ▶ How the Centre's planned Sanskrit universities will function? <input type="checkbox"/> ▶ Postal Ballot System <input type="checkbox"/> ▶ Promoting Tribals of India <input type="checkbox"/> ▶ 'Rethink Speaker's power to disqualify lawmakers: SC' <input type="checkbox"/> ▶ Section 188 of IPC <input type="checkbox"/> ▶ 'Abolition of Legislative Council' <input type="checkbox"/> |
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 *Remarks*

INTERNATIONAL RELATIONS

INDIA & NEIGHBORS

1. India – Nepal Relations

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

2. India and Bhutan

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

3. Indo-Afghan Bilateral Relations

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

4. India-Bangladesh Relations

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

5. India-Maldives Relations

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

6. India-Sri Lanka Relations

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

7. India-Myanmar Relations

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

8. Indo-Pak Relations

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

9. Indo-Chine Relations

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

10. South China Sea Dispute

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

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

11. Security Challenges in the Indian Ocean Region

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

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

INDIA & ASIAN NATIONS RELATIONS

1. CIS Countries of Central Asia

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

2. India-Mongolia

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

3. India – UAE Relations

- ▶ Political and economic relation
- ▶ Oil Economic Relation

4. India – IRAN

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

5. India – ISRAEL

- ▶ Israel and Palestine
- ▶ India – Israel Relations

6. India – Saudi Arabia

- ▶ Areas of Cooperation
- ▶ Challenges in relations

7. Asia-Pacific Region

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

8. India-South East Asia

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

9. Indo-Japan Bilateral Relationship

- ▶ Economy Centric Relationship
- ▶ Contemporary Perspective

10. India – South Korea

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

11. India-Vietnam

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

INDIA & ASIAN NATIONS RELATIONS

1. Indian Diaspora

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

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

INDIA & OTHER NATION & INSTITUTIONS

1. India and Africa

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

2. Indo-Australia Relationship

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

3. France

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

4. United Kingdom

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

5. India-USA Relations

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

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

6. The World Trade Organization

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

7. International Monetary Fund

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

8. Nuclear Security Summit

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

9. BRICS

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

10. BIMSTEC

- ▶ Convention on Mutual Legal Assistance in Criminal Matters

11. IBSA

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

12. SAARC

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

- ▶ Prospects For SAARC

13. Relevance of Non-Alignment in present India

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

14. India-ASEAN Economic Cooperation

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

 *Remarks*

ECONOMY

BASIC ECONOMY

1. Indian Economy and issues relating to planning

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

2. Resource Mobilization

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

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

3. Inclusive growth and issues arising from it

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

4. Government Budgeting

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

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

5. Investment models

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

6. Fiscal policy

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

7. Taxation

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

8. Monetary policy in India

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

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

9. Financial system

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

10. Banking

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

11. Foreign trade & International Organisations

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

AGRICULTURE

1. Role of Agriculture in Indian Economy

2. Land resource

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

- ▶ Steps taken by GOI
- ▶ Sustainable Land Management

3. Land Reforms

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

4. Agriculture Finance

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

5. Agricultural Credit Institutions

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

6. Crop Insurance in India

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

7. Agriculture Marketing

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

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

8. Subsidies

- ▶ Objectives of subsidies
- ▶ Transfer of resources from gainers from economic policies to losers from economic policies
- ▶ Farm Subsidies
- ▶ Fertiliser subsidies
- ▶ Subsidy on power
- ▶ Subsidy on irrigation
- ▶ Rationale of Minimum Support Price
- ▶ Impact of MSP on inflation
- ▶ Public Distribution System: Objectives, functioning, limitations, revamping, evolution from universal PDS to targeted PDS, Targeted PDS, a critical analysis of cost and benefit of PDS
- ▶ Buffer Stock policy and government's intervention in food market to keep prices under reasonable limits to help consumers
- ▶ Food Security bill, questions of resource mobilization for the FSB, criticism of the FSB
- ▶ Important questions on the future of subsidies

9. Agricultural Revolutions in India

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

10. Food Processing

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

INDUSTRY

1. Industrial policy and industrial development: Main Issues

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

2. Main features of Industrial development in India

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

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

TRANSPORT

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

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

RECENT DEVELOPMENTS

- | | | |
|--|--|---|
| <ul style="list-style-type: none"> ▶ What's next for virtual currency? <input type="checkbox"/> ▶ 'Business Reform Action Plan' <input type="checkbox"/> ▶ Financial Inclusion Index (FII) <input type="checkbox"/> ▶ Essential Commodities Act <input type="checkbox"/> ▶ Gender budgeting <input type="checkbox"/> ▶ 'Bilateral Netting of Qualified Financial Contracts Bill, 2020' <input type="checkbox"/> ▶ 'Business Reform Action Plan' <input type="checkbox"/> ▶ India Slips to 131 in Human Development Index Ranking' <input type="checkbox"/> ▶ 'India slips 17 spots down to 111th rank' <input type="checkbox"/> ▶ 'US puts India back on Currency Manipulation Watchlist' <input type="checkbox"/> ▶ 'IFSCA obtains Membership of International Association of Insurance Supervisors (IAIS)' <input type="checkbox"/> | | <ul style="list-style-type: none"> ▶ 'Regional Cluster concept of economic development ' <input type="checkbox"/> ▶ 'Fortification of edible oil with Vitamins A and D' <input type="checkbox"/> ▶ 'Lessons from the Bangladesh and Vietnam's Growth Story' <input type="checkbox"/> ▶ 'A secure future for platform workers' <input type="checkbox"/> ▶ 'The prize in Economic Science 2020' <input type="checkbox"/> ▶ 'NITI Aayog announces governing structure of India Energy Modelling Forum' <input type="checkbox"/> ▶ 'CAROTAR Rules 2020' <input type="checkbox"/> ▶ 'NSE IFSC-SGX Connect' <input type="checkbox"/> ▶ 'World Risk Index (WRI) 2020' <input type="checkbox"/> ▶ RBI to bring startups under Priority Sector Lending (PSL) <input type="checkbox"/> ▶ RBI sets up panel for stressed loans resolution norms. <input type="checkbox"/> |
|--|--|---|

 *Remarks*

SCIENCE & TECHNOLOGY

BIOLOGY

1. Chemical Building Blocks of Life

2. History and Origin of Life

3. Cells

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

4. Genetics

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

5. Classification of Living Things

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

6. Evolution

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

7. Tissues

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

8. Economic Zoology

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

9. Endocrine System

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

10. Respiration

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

11. The Transport System in Organisms

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

12. Skeletal and Muscular Systems

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

13. Reproduction

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

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

14. Excretion, Osmoregulation and Thermoregulation

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

15. Nutrition

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

INSTITUTIONS & POLICY

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

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

BIOTECHNOLOGY**1. Genetics and biotechnology**

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

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

2. Biological fuel generation

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

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

3. Environmental Biotechnology

- ▶ Microbial Ecology Environmental Biotechnology
- ▶ Waste water and sewage treatment
- ▶ Landfilling technologies
- ▶ Composting
- ▶ Bioremediation
- ▶ Detect and monitoring of pollutants
- ▶ Microbes and the geological environment
- ▶ Environmental sustainability and clean technology

4. Plant and Forest Biotechnology

- ▶ Plant biotechnology
- ▶ Forest biotechnology

5. Animal and Insect Biotechnology

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

6. Food and beverage biotechnology

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

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

7. Protection of biotechnological inventions

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

8. Recent initiatives in Health & Biotechnology

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

SPACE

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

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

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

DEFENCE

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

NUCLEAR ENERGY

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

IT, ELECTRONICS & TELECOM

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

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

NANO-SCIENCE & NANO TECHNOLOGIES

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

ROBOTICS

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

RECENT DEVELOPMENTS

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

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

**Remarks**

ECOLOGY & ENVIRONMENT

ECOLOGY & BIODIVERSITY

1. Ecology

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

2. Ecosystem and its dynamics

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

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

3. Biogeochemical Cycles

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

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

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

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

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

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

6. Biodiversity Basics

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

7. Biodiversity Conservation

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

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

8. Effect of Human Activities on Environment

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

9. Water Resource degradation

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

10. Minerals & Environmental Degradation

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

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

11. Deforestation

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

12. Waste Management

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

13. Sustainable Development

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

14. Environmental Pollution

- ▶ Air Pollution

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

15. Solid Waste Management

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

16. Coastal Ecosystem Management

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

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

17. Recent developments

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

18. Environmental Impact Assessment

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

19. Environmental Laws

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

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

20. Environment related Institutions and Organizations

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

21. Schemes

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

22. International Environmental Governance

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

23. Basics of Climate change

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

24. Urbanization and climate

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

25. Impact of agriculture on climate

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

26. Global Warming & Health

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

27. Recent developments

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

RECENT DEVELOPMENTS

- ▶ Demand of Organic Farming showing upward trend'
- ▶ 'The concept of Precision farming in India'
- ▶ 'Zoological Survey of India lists 62 species of skinks'
- ▶ Canada's Milne ice shelf collapsed'
- ▶ 'Arctic Ice fails to refreeze by late October, setting a new record'
- ▶ 'First-ever World Solar Technology Summit (WSTS)'
- ▶ 'Climate Migration primarily in middle income, agri-dependent countries: Study'
- ▶ A quarter of Bangladesh has been inundated with floodwaters: NASA
- ▶ 'Net zero by 2060: China's bold new carbon emissions goal'
- ▶ 'Conservation of the world's seagrasses'
- ▶ Snow Leopard
- ▶ 'Aldabra's coral reefs recovered faster from bleaching, finds new research'
- ▶ Locust attack in India
- ▶ Conserving the Western Ghats
- ▶ Ramsar Sites in India
- ▶ Delhi gets its first smog tower: What is it and how does it work?
- ▶ 'Kamdhenu Deepawali Abhiyan'

- ▶ "Sukhna Lake becomes a 'living entity'"
- ▶ Centre issues rules for import, possession of exotic species'
- ▶ World to suffer \$10 trillion loss by 2050: WWF
- ▶ 'Kerala to curb alien plants' growth in NBR'
- ▶ Puntius sanctus
- ▶ 'Eight Beaches awarded the Blue Flag Certification'
- ▶ Ecological disaster at Baghjan
- ▶ 'Link between climate change and wildfires'
- ▶ Black carbon deposits on Himalayan glaciers
- ▶ Massive plastic pollution footprint
- ▶ A Giant fish is declared extinct
- ▶ Trimeresurus Salazar
- ▶ 'Komodo dragons could become extinct soon due to climate change'
- ▶ "The Future of Earth, 2020"
- ▶ Coastal Erosion – an analysis
- ▶ 'Highest number of wetland species in Kaziranga'
- ▶ Mud packs and other remedies to save the Taj from pollution, age and insects
- ▶ State of India's Birds 2020

 *Remarks*

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INTERNAL SECURITY

1. Internal Security Challenges

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

2. Terrorism Threat to India

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

3. Organized Crime

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

4. Linkage between Development and Spread of Extremism

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

5. Insurgency in North-East

- ▶ Issues & Conflicts
- ▶ Assam Insurgency

6. Security Challenges in Border Areas

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

7. Basics of Cyber Security

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

8. Cyber Warfare

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

9. Social Media and Internal Security Threat

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

10. Money Laundering

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

11. Black Money in India

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

12. Police Reforms in India

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

13. Various Security Forces and their Mandate

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

 *Remarks*

ETHICS, INTEGRITY & APTITUDE

1. Ethics Basic Introduction

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

2. Human Values

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

3. Aptitude and foundational values of civil services

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

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

4. India & World Thinkers

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

► World Thinkers

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

► Indian & World Leaders

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

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

5. Attitude

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

6. Emotional Intelligence

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

7. Values & Ethics in Public Administration

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

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

8. Probity in Governance

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

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

APPLIED ETHICS

1. Euthanasia Issue

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

2. Surrogacy

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

3. Ethics & Sports

- ▶ Importance of sports

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

4. Media Ethics

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

5. Business Ethics

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

6. Ethics Related to Economic Sanctions

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

7. Refugees & Ethics

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

8. Ethical Dilemmas of Globalization

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

9. Ethics of War

- ▶ Ethics and War theories
- ▶ Evils of war

10. Environmental Ethics

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

11. Ethical Issues in Biotechnology

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

12. Animal Ethics

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

13. Food Adulteration and Ethics

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

14. Abortion: Ethical or Unethical

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

15. Honour Killing

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

16. Marital Rape

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

17. Ethical Issue Involved in Child Labour

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

18. Ethical Issue Involved in Treating Juvenile as Adult

- ▶ Juvenile justice system
- ▶ Negative implications

19. Ethics and Old Age

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

20. Ethics in Public and Private Relationships

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



Remarks

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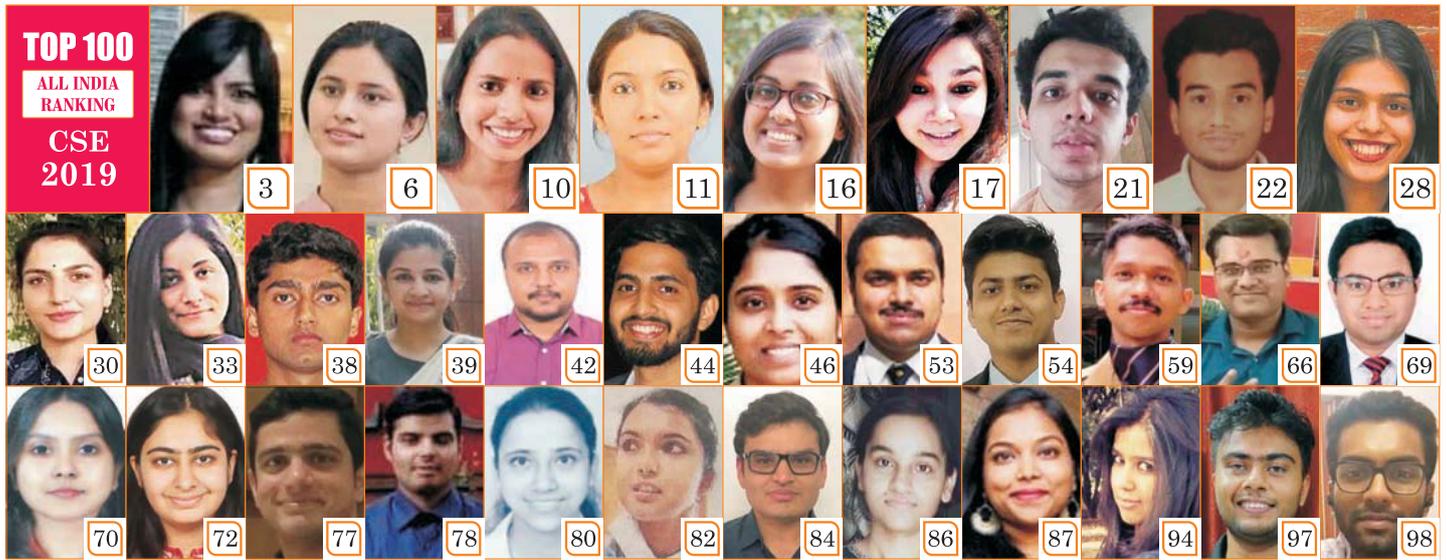
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