

UPSC SYLABUS explained

MICRO TOPICS LISTING PRE cum MAINS

UPDATED for IAS 2022-23

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- Ethics Test Series
- Optional Test Series
 - Political Science
 - Geography
 - History
 - Public Administration
 - Anthropology

HISTORY

ANCIENT HISTORY

Pre Historic Cultures in India 1. • Sources of Pre History Periodization of Indian pre history o Stone Age o Palaeolithic (2 million BC – 10,000 BC) o Mesolithic (10,000 BC - 8,000 BC) o Neolithic (8000 BC – 4000 BC) o Chalcolithic Age (4000 BC – 1500 BC) o Iron Age (1500 BC-200 BC) o Impact of Iron o 2. Pastoral & Farming **Communities Neolithic Phase** 0 **Chalcolithic Phase** o Early Iron Phase o Geographical Distribution o and Characteristics 3. Indus Valley Civilization • Harappan civilisation or Indus Valley Civilisation Major Cities Town Planning o Harappan Internal & Foreign Trade Θ Agriculture Θ Domestication of animals o Crafts

	0 0 0 0	Harappan Religion Harappan Economy Harappan Burial System Harappan Art & Architecture Decline of Harappan Culture	
	4. '	Vedic Society	
	٥	Original Home of Aryans	
	٥	Features of Aryan Culture	
	٥	Vedic Texts & Upanishad	
	٥	Sources for Reconstructing Vedic Society and Culture	
	Ø	Geography of the Rig Vedic Period and Geography of the later Vedic Phases	
	ø	Economic Conditions	
	٥	Political Organisation and Evolution of Monarchy	
	o	Social Organisation and Varna System	
	٥	Religion and Thought	
	5. 1	Pre Mauryan-Period	
`	ø	Age of 2nd Urbanisation	
	٥	Formation of states	
	ø	The Sixteen Mahajanapadas	
	ø	Gana Sangha or Republics	
	ø	Rise of urban centres	
	٥	Evolution of Coins	
	٥	Haryanka dynasty	
	٥	Shishunaga dynasty	
	o	Nanda dynasty	

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Weights and Measures

Script and Language

Harappan Society

6. Growth of Jainism and	9. Imperial Guptas	
 Buddhism Jainism Buddhism 	 Sources of Gupta Rule Political history of Guptas Fa-hien 	
7. The Mauryan Empire	Gupta AdministrationDevelopment of Art & Culture	
 Chandragupta and Bindusara The Arthasastra Megasthenes 	 Gupta: Age of Golden age Economic Conditions Urban centres in Gupta period 	
 Asoka and His Successors Asoka's Inscriptions and Sites 	10. Harshavardana	
 Asoka' a Dhamma Mauryan. Administration, Economy, Society and Art Decline of Maurya 	 Sources for Harsha's Period Early life of Harsha Harsha's Administration Important Officials of the empire Economy under Harsha 	
8. Post-Mauryan India (BC 200- AD 300)	 Economy under Harsha Huen Tsang Society 	
 Arrival of Indo-Greeks, Shakas, Parthians & Kushana 	● Religion	
 Commercial Contacts with the Outside World 	11. The Southern Dynasties	
 Satavahanas and Other Indigenous Dynasties 	 The Satavahanas (230 BC TO AD 225) The Pallavas (AD 330–796) 	
 Society: Evolution of Jatis 	o The Chalukyas (AD 535−1190)	
 Sangam Texts-and Society 	• The Pandyas of Madurai (AD 590–1323)	
 Schools of Art: Gandhara; Mathura ; Amravati 	 The Chola Dynasty (AD 850–1310) Rashtrakutas (AD 753–973) 	

MEDIEVAL HISTORY

1. Central Asian Politics and th Advance of Babur towards In	-	0	abur's problems after the Battle f Panipat truggle with Rana Sanga
o The Timurids		• ·	roblems of the Eastern Areas nd the Afghans
 The Timurid-Uzbek and Uzbek-Iran Conflict and Babur Babur's Advance towards India 		⊚ B	abur's Contribution and ignificance of his Advent into India
2. Struggle for Empire in North- India (Afghans, Rajputs and			ruggle for Empire in North Idia
Mughals)		₀ H	lumayun and the Afghans
 Struggle between Ibrahim Lodi and Babur the Battle of Panipat 			arly Activities of Humayun, nd the Tussle with Bahadur Shah

0	The Gujarat Campaign The Bengal Campaign, and Struggle with Sher Khan		
	The Establishment of the Nort Indian Empire	h	
0 0 0 0	The Surs Sher Shah's Early Life Social and Political Background of Bihar and the Rise of Sher Shah to Po The Sur Empire (1540-56) Contributions of Sher Shah	ower.	
	Consolidation and Expansion the Empire - Akbar	of	
0 0 0	Conflict with the Afghans - Hemu Struggle with the Nobility: Bairam Khan's Regency; Revolt of Uzbek Nobles		
٥	Early Expansion of the Empire (1560-76) - Malwa, Garh-Katanga, Rajasthan, Gujarat, Eastern India Relations with the Rajputs -		
0	Growth of a Composite Ruling Class Rebellions, and Further Expansion of the Empire in the North West		
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	State and Government under Akbar		
	Akbar Akbar's Concept of Suzerainty Structure of Government, Central and Provincial - the Vikalat, the		
0	Akbar Akbar's Concept of Suzerainty Structure of Government,		
0	Akbar's Concept of Suzerainty Structure of Government, Central and Provincial - the Vikalat, the Central Ministries, Provincial Government, District and Local		
0	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		
© © ©	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		
© © ©	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		
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ø	Policies and religious toleration	
	The Deccan and the Mughals (Upto 1657)	
٥	The Deccani States upto 1595	
٥	Mughal Advance towards the Deccan	
٥	Mughal Conquest of Berar, Khandesh and Parts of Ahmadnagar	
٥	Rise of Malik Ambar, and Frustration of	
ø	Mughal Attempt at Consolidation (1601-27)	
٥	Extinction of Ahmadnagar, Acceptance of Mughal	
ø	Suzerainty by Bijapur and Golconda	
٥	Shah Jahan and the Deccan (1636-57)	
O	Cultural Contribution of the Deccani States	
9.	Foreign Policy of the Mughals	
ø	Akbar and the Uzbeks	
۵	The Question of Qandahar and Relations with Iran	
ø	Shah Jahan's Balkh Campaign	
ø	Mughal - Persian Relations -the Last Phase	
	Last Phase	
10.	India in the First Half of the	
	India in the First Half of the	
	India in the First Half of the Seventeenth Century Jahangir's Accession - his Early Difficulties Territorial Consolidation and Expansion of the Empire - Mewar, East In	 dia
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0	India in the First Half of the Seventeenth Century Jahangir's Accession - his Early Difficulties Territorial Consolidation and Expansion of the Empire - Mewar, East In and Kangra	dia
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GS SCORE

 Temples, Jizyah; S (1679-1707) 	econd Phase	_		
			 Trend of India's Economy and Prospects during the First Half of the 	
 Territorial Consoli Expansion of Emp 			Eighteenth Century	
 Popular Revolts - Afghans and Sikh: 	Jats, Satnamis,		15. Religion, Fine Arts, Science and Technology	
 Breach with Marw 	ar and Mewar			
12. Climax and C	risis of the		 Religion- Hindu Religion, Sikh Religion, Islam 	
	ire the Maratha	s	 Fine Arts - Architecture, Painting, Languageand Literature, Music 	
and the Decca	an		 Science and Technology 	
 Rise of the Marath of Shivaji - 	has - Early Career		16. Northern India in the First I	T_1£
 Treaty of Puranda 	r - the Agra Visit		of the Eighteenth Century	1411
 Shivaji's Swarajya 				
and Achievement		_	 Bahadur Shah I, and the Beginning of the Struggle 	
 Aurangzeb and th (1658-87) 			 For Wizarat - Rajput Affairs - Marathas and the 	
	Decean (1687-1707)		 Deccan - Accentuation of the Party 	
 Assessment of Au Jagirdari Crisis 	rangzeb and the		Struggle	_
-			 Struggle for 'New' Wizarat: Zulfiqar Khan and Jahandar Shah (1712-13) 	
13. Society-Struct	ure and Growth	1 I	 The Saiyid Brothers' Struggle for 'New' Wizarat 	
 Rural Society 			 The Saiyid 'New' Wizarat 	
 Towns and Town I 			 The Wizarat of M. Amin Khan and 	
 Artisans and Mast Women 	er-Crattsmen		Nizam-ul-Mulk	
o women			 Rise of Regional States, Beginning of Foreign Invasions of India (1725-48 	2) 2)
 Servants and Slav 	es		5	,,
 Servants and Slav Standard of Living 				
Standard of LivingThe Ruling Classes]		17. The Maratha Bid for	,,
 Standard of Living) s - Nobility,		Supremacy	,,
 Standard of Living The Ruling Classes Rural Gentry 	g s - Nobility,			
 Standard of Living The Ruling Classe Rural Gentry The Middle Strata 	g s - Nobility, Classes		• The Marathas and their Policy	
 Standard of Living The Ruling Classe Rural Gentry The Middle Strata The Commercial C 	g s - Nobility, Classes		• The Marathas and their Policy of Expansion	
 Standard of Living The Ruling Classer Rural Gentry The Middle Strata The Commercial C 14. Economic Life Prospects Inland Trade 	g s - Nobility, Classes 2-Patterns and		 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 	
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 Standard of Living The Ruling Classer Rural Gentry The Middle Strata The Commercial O 14. Economic Life Prospects Inland Trade Overseas Trade - I Trading Companies - Positi 	9 s - Nobility, Classes e-Patterns and Role of Foreign tion of Indian and Trade		 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 	

MODERN HISTORY

1. Scenario before 1857

• Later Mughals

- Regional powers in 18th Century
- The British conquest of India
- Carnatic Wars

0 0 0 0	Battle of Plassey & Buxar Anglo-Mysore War Anglo Punjab War British Administration before 1857 British Economic Policy	
2.	Revolt of 1857	
0 0 0 0	Causes for revolt of 1857 Leaders of revolt of 1857 Suppression of revolt of 1857 Nature of revolt of 1857 Consequences of Revolt of 1857	
3.	Early Nationalism	
0	Indian National Movement (1858-1905) Early Nationalists and Swadeshi Movement	
0	Government of India Act 1909 Home rule league movement	
4.	The struggle for Swaraj	
0 0 0	Montague's statement – Aug 1917 Emergence of Gandhi – as a mass leader Khilafat & Non-Cooperation Movement	
0 0 0	(NCM) Swaraj Party Revolutionary Terrorism phase II (1920's) Simon Commission and Nehru report	
5.	Intimation of freedom	
0 0 0	Civil Disobedience Movement Round table conference Poona pact	
٥	Government of India Act 1935	

0 0 0	Tripuri session – 1939 August offer Individual Satyagarha 1940-41	
6.	Towards achievement of freedom	
٥	Popular struggles in the princely states	
٥	2nd World War and Nationalist response	
7.	Partition of India	
٥	Rise of Communalism	
ø	Wavell plan	
ø	Cabinet Mission Plan	
٥	Mountbatten plan	
8.	During the freedom struggle	
ø	Indian Renaissance/Socio-Religious Movement	
ø	Civil Rebellions during British	
ø	Tribal Movements during British Period	
٥	Peasant's Movement during British Period	
ø	Working class Movement (1850-1900)	
ø	Growth of communalism	
٥	Left and Communist trends in National Movement	
٥	Press and Education during British Period	
ø	Role of Women in Freedom Struggle	
ø	Governor Generals of India	
ø	Viceroys of India	
ø	Important persons	
o	Important news paper/journals	

Important news paper/journals
 Congress sessions

POST INDEPENDENCE INDIA

1. Re-organisation of states

- Constitutional provisions related to State formtion
- 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

GSSCORE

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 Regional aspirations, insurgencie and areas of tension 	es 🗖	8. Overview Of Economic Development Since Independer	ıce
 Accommodation and national integration 		 Planning in India 	
2. Linguistic Regionalism I	In India	9. Agriculture	
 Constitutional position and language policy Language and regionalism Recent controversy due to rise of Hindi 		 Industry Service sector Current challenges facing the Indian economy Agriculture Journey through Five Year Plans 	
3. Tribal Issue and Policy		 Land Reforms 	
 Consolidation Issues & Present Status Policy consolidation Issue of Women and Evolution 		 Post Green Revolution Agricultural Issues Agrarian Movements Achievements in Agriculture Since 	
Women Movement		Independence Recent Challenges 	
 Issues & challenges 			
 Women movements 		10. Industry	
 Government policy response and legislation 		 Industrial development since independence 	
 Governmental schemes 		 Public sector since independence 	
5. Problem of Caste And So	cial	 Sectoral Development 	
Consolidation		 Private Sector since Independence 	
 Caste practices in India Ambedkar Movement 		Industrial Policy since IndependenceMake in India	
 Constitutional provisions 		11. New Economic Policy	
 Recent government initiatives for emancipation of Scheduled Caste 		 Impact of New Economic Policy 	
 Issues of Manual Scavenging 		12. Post-Independence Policy Of Science And Technology	
6. Communalism & Social Consolidation		 India's Policy in the Field of the 	
 Secularism Causes of Communalism in India Consequences of the communali and social consolidation 	_	 Science and Technology Institutional Framework for Science and Technology Development Science and Technology In Pre- Reform Period 	
7. Issue Of Linguistic Mino	orities	 Impact of Economic Reform on the Science and Technology in India: 	
Operational InefficiencyGovernment initiatives		 New Policy Initiatives in the S&T Agenda of the Skill Training 	

WORLD HISTORY

1. **Beginning of Modern Age**

- Disintegration of the Feudal System o Renaissance o Humanism o Π Art and Architecture 0 Literature o Science o \Box Reformation etc. o Π Explorations, Discovery, Trade o Colonization - Rise of Nation State o Π The English Revolution o 2. **French Revolution** Causes o Π The revolution in France 0 П France under Napoleon o Impact of revolution o Significance of revolution o 3. Nationalism in Europe \Box Rise of the nation- state system o Unification of Italy o Unification of Germany o 4. **Colonialism and Imperialism** Colonialism o The age of Imperialism (1870-1914) 0 Imperialism in Asia o Analysis of Colonialism o 5. Emergence of USA Foundation of American Colonies o The Independence of United States o of America The American Revolutionary War Θ What was the impact of American o **Revolution?** Political Effects of the Revolution o How did the American Revolution o influence the French Revolution?
 - US Civil War o
 - Impact of Civil War on USA o
 - Global Impact of US Civil War Θ
 - Impact on India o

0	-	IT. A.S.IT T	
6.	1	World War-I	
	ø	Major causes of the war	
	o	Course of the war	
	ø	Analysis of major events of the war	
	ø	Consequences of World War I	
	o	Aftermath of World War I	
	o	League of Nations	
7.	F	Russian Revolution	
	o	Major events in pre-revolution Russia	
	o	Causes	
	o	Course of revolution	
	o	Consequences	
	o	Aftermath of the war	
	0	Post-Lenin Russia	
8.	Ι	nter-War Years (1919 To 1939)	
	0	The Great Depression	
	0	The Great Depression- an economic	
		perspective	
	Θ	Rise of Fascism in Italy	
	Θ	Rise of Nazism in Germany	
	0	Soviet Union (USSR)	
9.	7	World War- II	
	o	Foundations of the war	
	ø	Course of the war	
	o	Aftermath of war	
	o	Analysis of the war	
	o	Decolonization phase	
10	. I	Development In Middle East	
	0	Democratic reforms in Middle East	
	o	Arab nationalism	
	o	Israel	
11	. (Cold War	
	0	Reasons	
	0	Development of Cold War	
		(1945-1953)	_
	o	To what extent was there a there	

thaw after 1953?

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• Nuclear Arms Race and the Cuban Missile Crisis (1962)

12. Post Cold-War World

- Global issues since 1991 o
- Integration of Europe o

European integration- a timeline o

Rise of global Islamic terrorism o

o	Rise	of	Ch	ina
•	11150	01	\sim	mu

13. Communism, Socialism and Capitalism

- Capitalism (concept, types and example) o
- Communism (concept, types, example) o
- Relevance of capitalism in present era o
- Socialism 0

INDIAN CULTURE

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1. `	Visual Art	
٥	Sculptures of Harappan Civilisation	
٥	Sculptures of Mauryan Age	
٥	Post-Mauryan Period	
٥	Jain Sculptures	
٥	Buddhist Sculpture	
٥	Gupta Sculpture	
٥	Medieval School of Sculpture	
٥	Modern Indian Sculpture	
2.	Architecture in Ancient India	a
o	Harappan Period	
٥	Mauryan Architecture	
٥	Post-Mauryan Period Gupta Period	
٥	Temples of Khajuraho	
ø	Temples of Odisha	
ø	Temples of Gwalior	
ø	Temples of Gujarat	
ø	Temples of Rajasthan	
٥	Temples of Bengal	
ø	Temples of Assam	
٥	Temples of Himachal Pradesh	
ø	Temples of Jammu and Kashmir	
٥	Pallava Period	
٥	Chola Period	
٥	Pandya Temples	
ø	Vijaynagar Period	
ø	NayakaTemples	
ø	Temples of Kerala	

3.	Indo-Islamic Architecture					
	0 0 0 0	Imperial Style Delhi Sultanat Provincial Style Mughal Style Sikh Style of Architecture Rajput Architecture Salient features				
4.	Γ	Aodern Architecture				
	0 0 0	European Influence Indo-Saracenic Architecture Post-Independence Period				
5.	Ι	ndian 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.	F	Pottery Tradition in India				
	0 0 0 0	Ochre:Coloured Pottery(OCP) Black and Red Ware (BRW) Painted GreyWare (PGW) Northern Black Polished Ware (NBPW) Glazed and Unglazed Pottery				

Music in India 7.

Main Pillars of Indian Music 0

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Vesara Style

Hoysala Style

Rashtrakuta Period

0	Forms of Indian Music Musical Instruments Institutions Related to Music	
8. 1	Dances in India	
0	Concept of Dance in India	
0	Concept of Ashta Nayika	
0	Eight Classical Dance Forms in India	
0	Folk Dances	
0	Modern Dances	
9.]	Martial Arts in India	
٥	Genesis of Martial Arts	
٥	Forms of Traditional Martial Arts	
10.]	Indian Theatre	
ø	Classical Sanskrit Theatre	
ø	Regional Theatre	
ø	Modern Theatre	
٥	Renaissance of Indian Theatre	
11.]	Indian Puppetry	
	String Puppets	
٥	Shadow Puppets	
ø	Rod Puppets	
ø	Glove puppets	
ø	Modern Puppetry	
٥	Tribal Puppetry	
12.]	Indian Cinema	
	Cinema in India	
ø	History of Indian Cinema	
٥	Classification of Indian Cinema Film	
	Music of India	
13.]	Religions in India	
٥	Pre-Vedic Religon	
٥	Hinduism	
ø	Buddhism	
ø	Jainism	
٥	Sikhism	
٥	Islam	
٥	Christianity	
٥	Zoroastrianism	
٥	Judaism	
٥	Philosophy in India	

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14.1	Bhakti & Sufi Movements	
ø	Bhakti Movement	
٥	Vaishnava Acha:ryas:Metaphysical Foundation	
ø	Other Saints of Bhakti Movement	
ø	Maharashtra Dharma	
ø	Sufism	
15.1	Languages & Literature in Indi	a
ø	Sanskrit Literature	
ø	Pali Literature	
٥	Prakrit Literature	
٥	Tamil Literature	
٥	Telugu Literature	
٥	Malayalam Literature	
٥	Kannada Literature	
٥	Odia Literature	
٥	Assamese Literature	
٥	Bengali Literature	
٥	Gujarati Literature	
ø	Rajasthani Literature	
ø	Punjabi Literature	
٥	Marathi Literatur	
ø	Hindi Literature	
٥	Persian Literature	
٥	Urdu Literature	
16. I	Viscellaneous Topics	
٥	Indian Handicrafts	
ø	Indian Universities	
ø	Personalities Related to Culture	
٥	Places of Cultural Interest	
٥	Fairs and Festivals in India	
٥	Cultural Institutions in India	
٥	Awards and Honours Associated with Culture	
ø	The Calendar	
٥	The Eras	
٥	Science and Technology in Ancient India	
٥	UNESCO's List of Cultural Heritage in India	
Ø	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
- The five 'iconic' archaeological Sites mentioned in the Budget
- Battle of Koregaon
- Tulu Language

GEOGRAPHY

PHYSICAL GEOGRAPHY

1. General Geogra	phy
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٦	The origin of the Earth					
	o	Early Theories				
	o	Modern Theories – BBT				
	ø	Star Formation				
	o	Formation of Planets	Ц			
	Θ	Solar System				
٦	T)	he Evolution of the Earth				
	o	Layered Structure (5 layers)				
	o	Evolution of Lithosphere				
	o	Evolution of Atmosphere				
	o	Evolution of Hydrosphere				
	G	eological History of the Earth				
	0	Latitude and Longitude including important Parallels and Meridians				
	0	Motions of the Earth - Rotation, Revolution and their effects				
	0	Inclination of the Earth's Axis and its effects				
	0	Local and Standard Time and the International Date Line, Calendar				
	ø	Eclipses - Solar, Lunar				
۵	0	rigin of Life				
٦	G	eological Time Scale				
2.		Geomorphology				
٦	Ir	nterior of the Earth				
	o	Sources of Information				
	o	Direct				

- Indirect Earth Quake Waves Volcanoes \Box o Seismic waves o
 - Body waves
 - Surface waves
 - Understanding earth's interior with ≻ help of seismic waves
- Internal Structure of earth
 - ▶ Crust
 - Lithosphere ►
 - Mantle
 - Asthenosphere ►
 - Outer core
 - Inner core ►
 - Seismic Discontinuities ►

►

►

G	eo	logy	
o	Mi	nerals	
o	Ma	ajor Elements of the Earth's Crust	
	۲	Minerals – Feldspar , Quartz, Pyroxene Amphibole , Mica , Olivine	
	۲	Physical Characteristics–Crystal Form, Cleavage Fracture, Lusture, Color, Stre	□ ak
	۲	Transparency, Structure, Hardness, Specific Gravity	
	•	Metallic minerals – precious Ferrous , Non Ferrous	
	•	Non-metallic Minerals – Sulphur, Phosphates, Cement	
o	Ro	cks (Aggregate of Minerals)	
o	Pe	trology	
o	Ro	cks & landforms	
o	Ro	cks & Soils	
o	3 F	amily of Rocks	
	►	Igneous	
	>	Sedimentary	

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	MetamorphicRock Cycle	 Endogenic Forces Gradation , Degradation & Agradation
		● Geomorphic Process
۵	Earthquakes	► Endogenic Process
	 Waves: P,S, Body , Surface 	Diastrophism
	 Shadow Zone 	◆ Orogenic □
	 Types of Earthquakes 	◆ Epierogenic □
	 Causes of Earthquake 	◆ Earthquakes □
	● Effects	 ♦ Plate movements
	 Frequency 	♦ Volcanism
	 Locating an Epicentre 	► Exogenic Forces
	 Distribution of Earthquake 	● Denudation Processes
	 Earthquake Observatories 	o Weathering
		 Mass movements
	Volcano	\circ Erosion Transportation & Deposition \Box
		Distribution of Continents &
	► Shield	Oceans
	► Composite	
	► Caldera	
	 Flood Basalt 	► Continental Drift Theory
	 Mid Ocean Ridge 	
	 Types of lava 	Pangea, Panthalasa
	 Andesitic or Acidic lava 	◆ Laurasia, Gondwanaland □
	 Basic or Basaltic lava 	• Evidence in support of Continental
	 Intrusive volcanic Landforms 	Drift Theory ► Jigsaw Fit
	 Batholiths 	
	 Lacoliths 	 Rocks of Same age across oceans Tillite
	 Lapoliths 	Placer Deposits
	 Phacoliths 	Distribution of Fossils
	► Sills	
	► Dykes	 Forces of Drifting Pole Fleeing Force
	 Extrusive Volcanic Landforms 	Tidal Force
	 Geysers and Hot springs 	► Post Drift Studies
	 Extinct, Dormant and Active volcanoes 	Convectional Current Theory
	 Distribution of Volcanoes 	Mapping of the Ocean Floor
	 Pacific Ring of Fire 	 Continents – plate Tectonics
	 Mediterranean volcanism 	► Lithospheric Plates
	 Other regions 	Major Plate
	 Effects of Volcanoes 	Minor Plates
		 ► Plate Boundaries
	Tsunami	Divergent
	 Mechanism of Tsunami waves 	
	 Properties of Tsunami waves 	◆ Transform
	 Effects of Tsunami 	► Rates of Plate Movements
		► Force of plate movements
	Geomorphic Processes	► Indian Plate
	 Earth's Surface 	 Movement from 7 1mnyrs ago till
	 Exogenic Forces 	Today 🛛

Li	an	dfo	orms and their Evolution		
0	Ca	ause	25		
	►	Ge	eomorphic Processes		G
	►		gents		
,	Ge	-	orphic Agents		
	►		osional or Destructional		
	►	De	epositional or Constructional		
)	Ac		ts and their Impacts		
	>	W	ind , Running Water , Ground ater, Glaciers , Waves & Currents		
,	W	ind	5		
	•		ne of the Two dominant agents in ot deserts		
	►	Ca	ause – Deflation Abrasion Impact		
	►	Er	osional landforms		
		٠	Pediments and Pedi plains		
		٠	Playas		
		٠	Deflation Hollows and Caves		
		•	Mushroom , Table & Pedestal Rocks		
	►	De	epositional Landforms		G
		٠	Barchans		
		٠	Seif		
		٠	Parabolic		
		٠	Transverse		
		٠	Longitudinal		
	Rι	Inni	ng Water		G
	►	Нι	umid Regions		
	►	2 (Components		
		٠	Overland Flow – Sheet		
		٠	Linear Flow – Strems		
	►	Sta	ages		G
		٠	Youth Mature Old		
	►	Er	osional Landforms		
		٠	Valleys		
		٠	Rills		
		٠	Gullies		
		•	Valleys – V Shape, Gorge (Hard Rocks), Canyon (Sedimenta	□ ry)	
		٠	Potholes & Plunge pools		
		٠	Incised or entrenched meanders		
		٠	River Terraces – paired & unpaire	d 🗖	
	►	De	epositional Landforms		c
		٠	Alluvial Fans		
		٠	Delta		
		٠	Fllod Plains, Natural Levees,		
			Point Bars		
		•	Meansders, Slip off bank, Under o	.ut	
			bank		11

			UPSC SYLLABUS 202	2-23
		•	Oxbow lake	
		•	Braided Channels	
o	Gro	oun	d Water (Karst Topography)	
	>	Per	meable Rocks	
		•	Percolation	
		•	Bedding Plains	
	>	Lim	nestone and Dolomite Regions	
		•	Balkans, Adjacent to Adriatic regions	
	>	Ero	sional Landforms	
		*	Pools-Swallow Hole, Valley Sinks (Uvalas), Sinkholes, Collapse sinks (Dolines), Lapies, Ridges, Limestone Pavements	
		*	Caves – Altering bed of Rocks (Shale sandstone quartzite), Caves and Tunnels	
	►	De	positional landforms	
		•	Stalactites	
		•	Stalagmites	
		•	Pillar Columns	
o	Gla	cie	rs	
	>	Ero	sional Landforms	
		•	Cirque of Tarn Lakes	
		•	Hors and Serrated Regions – Arete	
		•	Glacial Valleys/ Troughs – Fiords	
	>	De	positional Landforms	
o	Gla	cial	Tills	
	>	Mc	praines	
	≻	Esk	cers	
	≻	Ou	twash Planes	
	>	Dru	umlins	
Θ	Wa	ves	and Currents	
	>		Jh Rocky Coasts & Low Jimentary Coasts	
	>	Ero	sional Landforms	
		•	Clifs	
		•	Terraces	
		•	Caves	
		•	Stacks	
	>	De	positional Landforms	
		•	Beaches and Dunes	
		•	Bars Barriers Spits	
o	We	ath	ering	
	>	We	eather over Earth Materials	
	>	Fac	tors	
		•	Geological	
		•	Climatic	

Topograhic

Vegetative

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 Major Processes 			
 Major Processes Chemical 		3.	Climatology
 Physical or Mechanical 			Composition of Atmosphere
Biological			
 Chemical – Forces Chemical Action 			● Gases
Solution			● Water Vapour
Carbonation			• Dust Particles
		•	Structure
 Hydration Oxidation & Reduction 			● Exosphere
			• Thermosphere
 Physical Forces Gravitational, Expansion, Water Pressure 			Mesosphere
 Unloading & Expansion 			• Stratosphere
 Temperature changes and Expansion 	n 🗆		o Troposphere □
 Freezing, Thawing, & Frost Wedging 	_		 o Altitude vs Temperature
 ♦ Salt Weathering 			Solar Radiation Heat Balance
 Biological Weathering 			Temperature
Burrowing			-
Wedging			● Insolation
Plant Roots			● Aphelion and Perihelion
 Effects of Weathering 			• Variability of Insolation at the surface of the Earth
• Exfoliation(Flaking)– Exfoliation			► Day Season Year
Domes, Tors	_		► Rotation on Axis, Angle of Inclination
 Significance of Weathering 			of sun rays, Length of the day
Soil Formation			 Transparency of Atmosphere, configuration of land in terms of its aspect.
 Biomes and Biodiversity 			
 Leaching / Enrichment 		•	Heat Balance
 Mass Movements 			
 Activating causes 			► Conduction
 Forms of movement – Heave Flow Slide 			► Convection
 3 major Groups – Slow Movement, 			► Advection
Rapid Movements , land Slides			
Landforms across the world:			• Heat Budget of the Planet Earth
handlorins across the world.			• Macro Budget
 Rivers and lakes 			► Albedo
Mountain & Peaks			► Shortwave Radiation
	_		► Long wave Earth Radiation
 Fold Mountain 			 Variation in the net Heat Budget at L the Earth's Surface
Block Mountain			
 Volcanic mountains 			Temperature(T)
Plateaus			• Factors controlling T distribution
 Plateau Formation process 			• Distribution of T Month of January-July
			• Range of T Month of January-July
			• Inversion of Temperature
 Dissected plateau Volcanic plateau 		•	Atmospheric Circulation and
 Economic significance of plateau 			Weather Systems
 Major plateau of the world 			• Atmospheric Pressure

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© © ©	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) 	
A	eneral Circulation of the tmosphere – Pattern of Planeta 'inds	ıry
ø	Latitudinal Variation of Atmospheric Heating	
0	Emergence of Pressure Belts Migration of Belts Following apparent	
0	Path of Sun Distribution of continents & Oceans Rotation of the Earth	
-	irculation	
ø	Simplified Global Circulation – Hadley Cell, Ferrel Cell, Polar cell	
o	Seasonal Wind	
o	Local Wind	
o	Land and Sea Breezes	
o	Mountain and Valley winds	
ø	AIR MASS – fronts	
ø	Extra Tropical Cyclone	
0	Thunderstorms	
o	Tornadoes	
W	ater in the Atmosphere	
o	Water Vapour	
0	Precipitation	
٥	Humidity – Absolute and Relative	
0	Saturation – Dew Point	
٥	Evaporation and Condensation	
	► Dew	
	► Frost	
	► Fog & Mist	
o	Clouds	
	 Types – Cirrus Cumulus Stratus Nimbu High Cirrus Cirrostratus Cirrosumulus 	_
	 High – Cirrus Cirrostratus Cirrocumulu Middle – Altostratus Altocumulus 	
	 Low – Stratocumulus Nimbostratus 	
	 Vertical Development – Cumulus and 	
		-

 Vertical Development – Cumulus and Cumulonimbus

o	Precipitation	
	Rainfall Snowfall Sleet Hail Hailstones	
o	Types of Rainfall	
	 Conventional 	
	► Orographic	
	► Cyclonic	
	► Frontal	
	 Monsoonal 	
o	World Distribution of Rainfall	
Tı	copical Cyclone	
0	Conditions required for formation of Tropical Cyclone	
	 Good source of latent heat 	
	 Coriolis force 	
	 Low level disturbances 	
	 Temperature difference between air masses 	
	 Wind shear 	
	 Upper air disturbances 	
Θ	Convective cyclogenesis (Development of Tropical Cyclone)	
o	Path of Tropical Cyclone	
0	Damage associated with Cyclone	
o	Arabian sea Cyclone	
o	Naming of Tropical Cyclone	
Θ	Early warning system for tropical Cyclone	
Je	t Sreams	
o	Features of Jet streams	
o	Types	
	 Permanent 	
	 Temporary 	
o	Influence of Jet streams on weather	
o	Jet streams and aviation	
Te	emperate Cyclones	
0	Air masses	
0	Fronts	
Θ	Origin and development of Temperate Cyclone	
o	Comparison between Tropical and Temperate Cyclone	
Po	olar Vortex	
o	Polar vortex details	

Polar vortex and Ozone depletion

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El Nino and La Nina

_	_		
	٥	ENSO	
	٥	Indian Ocean dipole effect	
	٥	Effect on regional and world climate	
	٥	Effect of these events on Indian Monsoon	
٦	W	Jorld Climat e	
	ø	The Hot, Wet Equatorial Climate	
	٥	The Tropical Monsoon and Tropical Marine Climates	
	ø	The Savanna or Sudan Climate	
	0	The Hot Desert and Mid-Latitude Desert Climates	
	٥	The Warm Temperate Western Margin (Mediterranean) Climate	
	٥	The Temperate Continental (Steppe) Climate	
	0	The Warm Temperate Eastern Margin (China Type) Climate	
	ø	The Cool Temperate Western Margin (British Type) Climate	
	0	The Cool Temperate Continental (Siberian) Climate	
	0	The Cool Temperate Eastern Margin (Lauren-tian) Climate	
	٥	The Arctic or Polar Climate	
4.	(Oceanography	
	W	later on the Surface of the Ear	th
	ø	Hydrological Cycle	
		► Component	
		 Processes 	
٦	0	ceans	
	٥	Relief of the Ocean floor	
	٥	4 divisions of the ocean floor	
		 Continental Shelf 	
		Continental Slope	
		Deep sea plain	
		 Oceanic deep and Trenches Minor relief features 	
	٥	 Mid oceanic ridges 	
		 Seamount 	
		 Submarine canyons 	
		► Guy outs	
		► Atoll	
٦	T	•	□ er

٥	Spatial	
٥	Factors affecting Temperature distribution	Ш
	 Latitude 	
	 Unequal distrivution of land & Water 	
	 Prevailing wind 	
	 Ocean Currents 	
٥	Horizontal & Vertical Distribution	
	► Thermocline	
	► 3 layers	
Sa	alinity of the Ocean Water	
ø	Factors affecting salinity	
	 Evaporation and precipitation 	
	 Fresh water flow from rivers 	
	► Wing	
	► Ocean currents	
	 Horizontals distribution of sailinity 	
ø	Vertical Distribution of salinity	
٥	Density of Ocean Waters	
M	lovements of ocean Water	
ø	Factors influencing Movement	
	► Temperature	
	► Salinity	
	► Density	
	 Sun Moon Winds 	
٥	Motion – Horizontal & Vertical Currents	
٥	Waves	
	 Motion of waves and water molecules 	
	 Characteristics Of WAVE 	
	 Crest and Trough 	
	► Height	
	 Amplitude 	
	 Period 	
	► Length	
	► Speed	
	► Frequency	
	► Tides	
٥	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	

o	Importance of Tides	
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Ocean Currents

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	0	Influenced by 2 forces Primary Force that initiates the	
	Ø	 movement Heating of Solar Energy Wind Gravity Coriolis force Secondary force that influence the 	
		currents to flow	
	0	Characteristic – Drift – 5 knots	
	Θ	 Types of ocean curents 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 	
		 Desert formation and Ocean currents 	
		 Atlantic Meridional Overturning Circulation 	
٦	Re	esources from the Ocean	
	o	Ocean deposits	
		 Terrigenous Deposits 	
		 Pelagic deposits 	
	ø	Mineral resources on deep sea floor	
	ø	Energy resources	
	0	Biotic resources	
	ø	Deep ocean mission	
	0	UNCLOS	
		 Territorial waters 	
		 Contiguous zone 	
		Exclusive economic zone	
		 High seas 	
5.	V	Vater Resource	
	ø	Underground water resource	
	٥	Surface water resources	
	Θ	Inland water resources: Utilization of inland water resources	
	Θ	Oceanic water resources: Main features of ocean	
	ø	Utilization of oceans by man	
	٥	Water consumption patterns	
	0	Water pollution	
	٥	Conservation of water resources	
	ø	Techniques of water conservation	
	ø	River Interlinking Projects	
	ø	The problem of ageing dams	

6. Biogeography

Soil

0	Sc	il Characteristics	
ø	Fa	ctors Responsible for Soil Formation	
o	St	ages of Soil Formation	
ø	Sc	il Forming Processes	
ø	Sc	il Profiles and Horizons	
o	Sc	il Classification	
0	Sc	il Erosion and Conservation	
V	eg	etation Resources	
o	Ту	pes of Natural Vegetation	
o	Fc	rests	
0	Sig	gnificance of forests	
	>	Economic significance, Ecological significance	
	►	Cultural significance	
o	Fa	ctors of forest development	
0	Ex	tent of forest cover	
o	Cl	assification of forests	
	۲	Grasslands	
	>	Desert vegetation	
	۲	Tundra Vegetation	
o	Ec	onomic utilization of forests	
0	De	eforestation	
	>	Deforestation in tropical forests	
	>	Deforestation in temperate forests	
	>	Rate and extent of deforestation	
	>	Causes and factors of deforestation: Immediate causes of deforestation	
	۲	Indirect deforestation	
	۲	Underlying causes of deforestation	
o	Сс	onservation of forests	
	۲	Forest conservation strategies	
	۲	Reforestation	
	►	Monoculture plantation	
	۲	Afforestation	
o	Ту	pes of forestry	
	>	Social forestry	
o	Ag	gro-forestry	
o	М	iyawaki Method	

PHYSICAL GEOGRAPHY OF INDIA

1. Physiography of India

ø	Location	
٥	Geopolitical Significance of India	
٥	Geological Divisions	
	► The Peninsular Block	
	 The Himalayas and other 	
	 Peninsular Mountains 	
٥	Indo-Ganga-Brahmaputra Plain	
ø	Physiographic Divisions	
	, , , , , , , , , , , , , , , , , , , ,	
2. I	Drainage System	
	Drainage Patterns	
	 Drainage System of India 	
	 Himalayan Drainage System 	
	 River Systems of Himalayan 	
	Drainage	
	 Indus river system 	Π
	 Ganga River System 	
	 Brahmaputra river system 	
	 Peninsular Drainage System 	
	0, 1	
	 River Systems of Peninsular Drainage 	
	 Small Rivers Flowing Towards East and West 	
3. 0	Climate	

 Factors influencing the climate of India

	0	Monsoon Mechanism of the Monsoon	
		 Classical Theory 	
		 Modern theory 	
		 Air mass theory 	
		 Jet stream theory 	
	ø	EL-NINO and LA-NINA & their impact	
	ø	The rhythm of Seasons	
		 The cold weather season 	
		 The hot weather season 	
		► The southwest monsoon season	
		 The retreating monsoon season 	
	Θ	Climatic Regions of India	
4.	S	oils in India	
	o	Classification of Soils	
	o	Soil textures	
	o	Issue of Soil degradation & Soil	
	ø	Erosion	
	Θ	Soil Conservation	
5.	ľ	Vatural Vegetation	
	0	Types of Forests in India	
	-	Forest Cover in India	
	٥		
	Θ	Forest Conservation	

Forest Problems in India

HUMAN GEOGRAPHY

L

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

o	Density of population	
o	Pattern of population density	
o	Population increase (growth) in the world	
o	Causes of rapid increase in population	
o	Present trend	
o	Future projections	
o	Determinants of population growth	
o	Natural increase	
o	Characteristics of population	

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	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 Rising Youth Population	
2. U	Irbanization	
0	Basic Feature and Pattern's of India's Urbanization	
ø	Issues of Urbanization in India	
ø	Rural Urban Migration	
Ø	Emergence of Slums	3
Ø	Urban Transport	
٥	Waste Disposal	
0	Water Supply, Drainage and Sanitation Electronic Waste	
0	Urban Poverty	
0	Real Estate (Regulation & Development) Bill, 2013	
ø	Way Forward to Tackle Issues Related to Urbanization	
٥	Inclusive Cities/Smart cities	

G	 Recent government programmes: AMRUT 	
G	Migration	
e	Reverse Migration	
e	Displacement	
e	Importance of the Rehabilitation Policy	
e	 Urban settlements: types 	
G	 Urbanisation process in India. 	
e	 Morphology of urban settlements 	
G	 Town planning and patterns of rural settlement 	
G	 Settlement types of the world 	
G	Migration: Push factors and pull factors	
G	 Emigration during colonial, post-independent and post-liberalisatior period 	
e	 Internal versus world migration 	
e	 Functional classification of cities 	
G	 Difference between boundaries and frontiers, their classification 	
e	 Rural urban fringe characteristics, advantages, problems 	
e	 National urbanisation policy 	
G	 Principles of urban planning 	
e	 Land cover transformation 	
G	 Factors affecting rural settlements, their types and patterns 	
G	 Cities – hierarchical classification, morphological classification 	
	Census	
•		
e		
G		
G	, and y control of	
G	Old Age	\Box

Old Age o

o

- Age Structure o
 - Density
- Population growth o
- Census terminology o
- Caste Census Issues o

ECONOMIC GEOGRAPHY

1. Agriculture

Land Resource

- Land-use o
- Land capability classification

- Causes of Land Degradation o Impact of Land Degradation o Steps taken by GOI o
- Sustainable Land Management o

Basic terms related to Agriculture D

GSSCORE

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o	Pe	rformance of the agriculture sector	
ø	Ty	pes of farming in India	
o	Dr	y zone farming	
ø	Or	ganic farming	
o	Cr	opping seasons in India	
o	Cr	opping Pattern in India	
o	Ag	riculture regionalization	
٥		rastructure factors: Seeds; rtilizers; Irrigation	
o	La	nd use pattern in India	
ø	Ins	stitutional Factors as land reform	
ø	Hc	orticulture sector in India	
ø	Ag	ricultural revolutions	
ø	Ag	ricultural labours	
ø	Pri	ce Policy for Agriculture	
ø	Ag	ricultural marketing	
ø	Ag	ricultural Insurance	
ø	Ag	ricultural Census	
ø	Ma	ajor schemes in agricultural sector	
٥	Na	tional Policy for farmers	
٥	Im	pact of climate change on agriculture	
٥	W	hat is sustainable agriculture?	
ø	Us	e of IT in agriculture	
ø	Ag	riculture Issues and Challenges	
Pı	roċ	luctivity of Crops and	
		litions for growth	
o	W	heat	
	•	Conditions of growth	
	•	Varieties	
	•	Types of cultivation	
	•	Production pattern	
	►	International trade	
ø	Ric	ce	
	>	Conditions of growth	
	>	Varieties	
	>	Methods of cultivation	
	>	Production pattern	
	►	International trade	
ø	Ma	aize (Corn)	
	>	Conditions of growth	
	>	Production pattern	
	>	International trade	
٥	Ва	rley	
	>	Conditions of growth	
	>	Production pattern	
	►	International trade	

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Oats

o Rye

Beverages

Condition of growth

Production pattern

International trade

Conditions of growth

Production pattern

International trade

Production pattern

• Conditions of growth

Production pattern

International trade

International trade

Conditions of growth

Types of coffee

▶ Tea

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Cocoa

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Sisal

Raw Silk

Tobacco

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Fibre Crops

Cotton

► Jute

Varieties of cotton

Production pattern

International trade

Conditions of growth

Production pattern

International trade

Abaca, Henequeno

Production pattern

International trade

Natural Rubber
 Other sources of rubber

Production pattern

International trade

Conditions of growth

Production pattern

International trade

Production pattern

Sugarcane

Substitutes of Jute: Flax, Hemp

Plantations in South-east Asia

Sugarbeet—Conditions of growth

Conditions of growth

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► Coffee

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	Sugar industrySugar consumptionInternational 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	
	o Nickel	
	o 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 	
	 Coal fields and coal production 	
	 By products of coal Concernation of Coal Patroloum 	
	Conservation of Coal Petroleum	
	PetroleumNature and properties of petroleum	
	 Nature and properties of petroleum 	

	ø	Origin and recovery	
	o	Exploration	
	ø	Petroleum refining	
	Θ	Petroleum reserves	
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	Θ	OPEC and its role in oil trade	
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	Θ	Process of iron and steel production	
	Θ	Location of iron and steel industry	
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- Development of iron manufacture o
- Distribution of iron and steel industry o

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o	Global steel production			o	Production of paper and paper board
o	International trade			ø	Newsprint
o	Growth potential of the steel industry			o	International trade
o	Textile Industry			o	Salient features of pulp and paper
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o	Industrial machinery: Textile machinery			Θ	Industrial regions of Anglo America-
o	Other industrial machinery				USA, Canada, Western Europeand Cer Britain, Germany, Belgium, Netherland
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0	Glass industry: Production of glass			Ø	Major Port Authorities Act, 2021 + Dra Indian Ports Bill, 2021
0	Agro-industries			ø	Regional Rapid Transit System 1
0	Synthetic rubber industry			0	Odisha's coastal highway
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- India's North Eastern states o decertifying most rapidly
- 'The New Green Revolution: A Just o Transition to Climate-Smart Crops'

- Marine heatwaves o
- Atlantic Meridional Overturning o Circulation (AMOC)



o	Discovery of India's First ever Lithium Reserves in Karnataka's Mandya		0	India largest emitter of SO2 in the world Bamboonomics	
o	Naming of Tropical Cyclones				
o	Great Barrier Reef as World Heritage		0	Burning of Amazon forest 'Dead-Zone' found in the Gulf of Mexico	
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o	Age of Earth's inner core revised		•	Miyawaki Method	Ш
o	Earth's water a result of asteroid		o	Avian botulism	
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INDIAN SOCIETY & SOCIAL JUSTICE

INDIAN SOCIETY

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	ø	Types of diversities in India				
	٥	Can diversity be equated with difference?				
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	٥	Women's organizations in Indian history				
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	ø	Is a larger vocal role possible and ways to achieve the same				
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•	P	overty and development issue	s	•		
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	o	Sen vs Bhagwati model				
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o	Certain case studies	
o	Government's initiatives and the five year plans	
o	Role of civil society organizations	
	ffects of globalization on India ociety	n
o	What is the meaning of globalization	
o	Kinds of impact of globalization –	
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Э	Is the impact solely positive or negative	
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0	Meaning and concept of social empowerment	
o	Why do we need social empowerment?	
0	Specific sections for whom social empowerment is the life blood	
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o	Government's initiatives for empowerment	
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0	Other approaches /players/tools for social empowerment and some case studies on the same	
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o	Meaning and concept of communalism	
o	Historicity of communalism	
o	Recent incidents	
0	Role of third parties in inciting/ perpetrating communalism	

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- Communalism under the law
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 Meaning and concept of secularism
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- Comparisons of models Indian & Western
- Gandhiji on religion

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Indian philosophy on secularism

Threats on the secular spirit Is the Indian democracy mature enough to handle the gravity of secularism

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- Meaning and concept of regionalism
- Theories on regionalism
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- Role of various players
- \circ Recent incidents causing a wave of flurry \square
- Possible ways to tackle the same

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o	Gender technology gap	
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	Θ	Skill Development Initiative Scheme			Samaad Adarah Crans Vaiana	
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n Inclusive growth

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

Rural Development

- Rural development and poverty alleviation
- Review of the Existing Programmes
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- Countering Disinformation and Hate Speech Online
- Sanitation and Nutrition Linkage
- Child Trafficking
- Urban Mega Crisis and Alternative Transport
- Marital rape, an indignity to women
- Caste Census in the times of changing social equations
- The ripple effect of gender inclusivity on India's economy
- COVID-19 and Orphans
- Gender technology gap: needs of a feminist approach to technology
- Issue of Marriageable Age for Women
- Symbolism of Inter Caste Marriages
- Medical Termination of Pregnancy
- Violence against women
- Tech for Tribals
- South Asian Migrant Crisis
- Climate change is already damaging health of children, says Lancet report
- Global Social Mobility Index

- **Project Samarthan** o Female Health and Hygiene o Programmes - Khushi and Ujjawala Sanitary napkin initiatives Bharatiya Poshan Krishi Kosh o School Education Quality Index o Samagra Shiksha Abhiyan o П 'The Pulse Polio Programme' o STRIDE o "Kerala bans CFL and filament bulbs" Θ "Addition of 3 Endangered Indian o Species to the Global Conservation List" 'Migrant Policy Index' o
 - "Lassa fever"
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 - Disabled are entitled to the same benefits of SC/ST quota: Supreme Court

POLITY

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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
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n Preamble

- Preamble
- Basic features
- Value premises of constitution
- Terminologies as:
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Citizenship

- Basic constitutional features
- Methodology of getting citizenship
- Modes of Losing the Citizenship of India
- Concept of dual citizenship
- Citizenship provisions in J&K

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• Office of the Vice-President

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	© © ©	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		0 0 0 0 0 0 0	Judiciary appointment Collegiums System NJAC Controversy National Court of Appeal Judicial Accountability Issues of corruption in judiciary Role of Women in Judiciary Need for Virtual Courts	
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GOVERNANCE

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Need and importance of Government Policies

- Growth and development
- Human development and human capital formation
- Equality (interpersonal and interregional) and social justice
- Unity and integrity
- Trust between state and citizens
- Governance: Meaning and Scope
- Good Governance
- Contemporary debate around Governance and Good Governance
- Governance and emerging areas (4th Industrial revolution and related technologies, gender issues, Ethical Governance, Environmental Governance)

e Effective Implementation

- What is effective implementation? Best outcomes in view of given time, resources and constraints
- Outcome orientation in implementation \Box
- Programme impact assessment
- Analysis of different important schemes \Box

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, inputoutput analysis, cost-benefit analysis
- Setting up institutions and regulatory norms task forces, steering committees and review committees.

- Interventions in emerging areas Social Media, Data, Privacy, Social Sector
- 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
 - SHGs and Women Development
 - Women Development and Women in Development dynamics
 - SHGs and poverty
 - SHGs and Rural Development
 - Micro Finance
 - Meaning and importance
 - Objectives
 - Structure and Organization
 - Advantages
 - Micro Finance in India
 - Non-Government Organizations
 - GONGOs
 - 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 \Box
- NGOs and advocacy

Important aspects of governance, transparency and accountability

ø	Citizen centric governance	
Θ	Features of good governance	
ø	Legislative accountability	
ø	Administrative accountability	
٥	Judicial accountability	
٥	Ombudsman	
ø	Whistleblowers concept	
ø	Anti corruption machinery	
ø	Role of citizens	
o	Role of media	
o	Social audit	
o	Systematic reforms	
ø	Social Media and Accountability/ Transparency/Governance	
o	Decentralisation	
ø	Delegation	
o	Delegation vs decentralisation	
o	Bottom-up governance	
e	Governance	
٥	Introduction	
٥	Applications	
٥	Models	
٥	Successes	
٥	Limitations	
ø	Future prospects	
ø	E-Government	
٥	Dashboards and Portals of E- governance and E-government- Uses/Impact/Analysis	
o	Democracy and E-governance	
o	E governance and Judiciary	
ø	E governance and Legislatures	
С	itizens Charters	
ø	Citizens Charters	
ø	Introduction	
ø	Models	
٥	Features	
٥	CC in India	
٥	Issues in CC implementation	
o	Reform needed	

- Reform needed o
- Sevottam Framework Θ
- Citizens and Citizens Charters o

Role of civil services in a democracy

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	•	
o	Concept of civil services	
o	Need for civil services	
o	Different role of civil services	
o	Law making	
0	Policy formulation	
0	Policy implementation	
o	Policy evaluation	
o	Civil services as protector of democracy	
0	To protect minorities (religious and linguistic)	
0	To promote Inclusive and sustainable growth	
o	Civil Services – Democracy dynamics	
ø	Civil Services in eras- Post independence/ Post-LPG / in 21st century	
o	Emerging challenges for Civil Services	
0	Reforms- Lateral Entry	
0	Capacity building of Civil Services (Past to Present)	
0	Autonomy	
ø	Frequent transfers and security of tenure- concept/ benefits/ analysis	
o	Cadre Policy	
0	Performance Appraisal and HR policies for Civil Services	
o	Civil Services Board	
Pı	ressure groups and formal/	
	formal associations and their	
ro	le in the Polity	
0	What are pressure groups?	
0	Types	
ø	The significance of pressure groups in India	
0	Differentiate between a pressure group and a political party	
o	Evaluation of pressure groups role	
o	Pressure groups and new media	
o	Politicisation of Pressure Groups	
o	Role of pressure groups in governance	
٥	lssues, pros, cons, challenges for Pressure Groups	
C fu	ppointment to various onstitutional posts, powers, .nctions and responsibilities of	
Va	arious Constitutional Bodies	
0	Appointment of CAG (procedure of appointment)- composition of CAG	

		0	Biodiversity Authority Of India Press Council Of India Forward Markets Commission	
		0	Inland Waterways Authority Of India	
		0	RBI Evaluation of Each body : History/ Evolution/ Pros/ Cons/ Issues /Challenge / Way Forward	s
_	•	E	lections in India	
		0	Salient features of the Representation of People Act, 1950	
□ d □		٥	Salient features of Representation of Peoples Act, 1951	
		o	Electoral reforms	
		o	Criminalization of politics	
on		ø	Negative or neutral voting	
_		ø	State funding of Elections	
e 🗆		ø	Irregularities in polling	
		ø	Electoral Bonds	
		P	olitical Parties in India	
		o	Political parties in India	
		0	Party reforms Problems in the working of parties	
es		0		
		0	Casteism and politics	
ous		0	Reforms in Party system in India Strengthening of Anti-defection	
		O	measures	
		ø	Coalition Governments and dynamics	Ш
	•	R	ole of Pressure Groups	
		٥	Types of pressure groups	
		Ø	Role of pressure group in developing countries	
		ø	Functions of pressure groups in India	
		ø	Pressure groups methods	
		o	Pressure groups and Democracy	
		ø	Criticism of pressure groups	
		L	ocal Government and	
		_	overnance	
		٥	Issues of Funds, Functions and Functionaries.	
		ø	Local Government and Vulnerable Sections (SC/ST/OBC/Women/ Transgenders/Migrants/Children/ Disabled etc)	
		ø	Local Government and emerging issues (Disaster management, Technology)	
		٥	Localism	

- 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 commiss
- Functions and responsibilities of Finance commission
- Powers and privileges of Finance commission (provided by constitution and different ACTs of Parliament.)
- National commission for SCs and STs.
- Other bodies- NGT, NHRC etc
- Evaluation of Each body: History/ Evolution/ Pros/ Cons/ Issues/ Challenges / Way Forward

Statutory, Regulatory and various Quasi-Judicial Bodies

ø	SEBI	
ø	CVC	
ø	CBI	
ø	Planning Commission	
ø	NDC	
ø	PMO	
ø	Zonal Council	
ø	TRAI	
ø	NCLAT	
ø	IRDA	
ø	National Human Rights Commission	
ø	State Human Rights Commission	
ø	Central Information Commission	
ø	State Information Commission	
٥	National Consumer Disputes Redressal Commission	
ø	Tribunal	
ø	Medical Council Of India	
٥	Pension Fund Regulatory and Development Authority	

GSSCORE

- Neo-Localism
- Subsidiarity

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Vulnerable Sections (issues/
challenges/ solutions/Laws/
Interventions)

o	SC	
o	ST	
o	OBC	
o	Migrants	
o	Women	
ø	Disabled	
o	Children	
ø	Refugees	
o	Transgenders	
o	LGBT	
o	Manual Scavengers	
o	People with Special needs etc	

 Poverty, Hunger and Health (Evaluation/ issues/ challenges/ solutions/committees/ commissions/ Programs/ institutions/ international comparisons)

- o Poverty
- o Hunger
- o Health
- Malnutrition

 Unemployment Π **Distress Migration** o Schemes- MGNREGA, PM_POSHAN, П o Ayushman Bharat etc Policies-NHP, NEP etc 0 Miscellaneous 'Concern about democracy in the o digital age' Indices and Rankings – Domestic and o International (Eg Global Hunger Index, NITI Ayyog's, NIRF etc) \Box • Reports- Domestic/international/ governmental/Independent Internet shutdowns \Box o Committees and Commissions o (Findings/recommendations/ Anlaysis) \Box Co-operatives o MSME Π o One nation one ration card o One district one product o П Aspirational districts o \square Sustainable Development Goals o and India Entitlement portability П Fake news, Hate speech o Recent interventions (Eg. Laws- Privacy/ o Crypto currency/ Uniform Civil Code/ Termination of Pregnancy etc. Eg Rules : IT rules- regulating the OTT and Digital Media)

 Missions (Jal Jeevan mission/ Gati Shakti etc)

CONTEMPORARY ISSUES

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ø	Frequent Transfers of Public Servants	
Ø	More Decentralized form of Governance Model in India	
0	Criminal Justice System – Problems and Solutions	
ø	Ministry of Co-operation	
o	One Nation One Ration Card	
0	'Federalism and Interstate River Water Governance in India'	
0	Ayushman Bharat Digital Mission (ABDM)	
٥	One District One Product: A Potential Gamechanger for Northeast Economies'	
o	E-Gram Swaraj Portal	

o	Mission Karmayogi	
ø	Medical Termination of Pregnancy (Amendment) Act, 2021	
Θ	The Information Technology (Intermediary Guidelines and Digital Media Ethics Code) Rules 2021	
0	Concern about democracy in the digital age	
o	Jal Jeevan mission	
o	Moral Policing	
ø	Impact of gender reservation in Indian Urban Local Bodies (ULB)	
0	The changing need of Education in India	

INTERNATIONAL RELATIONS

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1. Evolution and Key Principles of Indian Foreign Policy

n Indian Foreign Policy

- Determinants of India's Foreign Policy
- Factors determining India's Foreign Policy
- Non-Aligned Movement
- Panchsheel
- India's Nuclear Doctrine
- Evolution of Neighbourhood Policy
- Look East Policy
- Act East Policy
- Look West Policy

n Indian Diaspora

- Role played by Indian Diaspora
- Issue of safety of Indians abroad
- Schemes for Welfare of Overseas Indian

2. Bilateral Relations

2.1 India & Neighbours

India – Nepal Relations

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

n India and Bhutan

• Economy: A Broad Overview

- India, Bhutan and China: issues o Π The Recent Landmark visit by Indian o Prime Minister **Indo-Afghan Bilateral Relations** D A Long History of Bilateral Relations o The India-Afghanistan Development o Partnership Strategic factors undergirding India's o Partnership with Afghanistan Afghanistan after NATO Withdrawal o **Options for India India-Bangladesh Relations** D **Development Partnership** 0 India-Bangladesh Relations in line 0 with 'Look East' policy **Boundary Agreements** o Teesta River Dispute o India-Maldives Relations n Geostrategic Importance of Maldives o **Development Cooperation** 0 Security Risks 0 India-Sri Lanka Relations D **Commercial Relations** 0 **Developmental Cooperation** Fishermen Issue ര **India-Myanmar Relations** D Relation through ages o o Recent change in policy China Role **Indo-Pak Relations** Cooperation between India & Pakistan
 - Major Crisis

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	• Water Dis				ø	Shanghai Cooperation Organisation	
		errorism and Proxy Wars		D	Ir	ldia-Mongolia	
	Indian – I	Russia			0	India-Mongolia Bilateral Cooperation Deal on Uranium Supply	
		Cooperation			0		
	 Major Co 				In	idia – UAE Relations	
	o Russia - C				o	Political and economic relation	
	Indo-Chi	na Relations			٥	Oil Economic Relation	
		Relation			In	idia – IRAN	
		lia Water Related Issue			o	Iran Nuclear Deal and India	
		Pearls Strategy"			ø	India Iran Relations	
		1aritime Silk Route ons for India			Ø	US-Geopolitical and Geo-Economic Consideration in Iran	
	 Militarisa Initiative 	tion of Belt and Road (BRI)		D	Ir	dia – ISRAEL	
	• Confiden	ce Building Measures (CBMs)			ø	Israel and Palestine Conflict	
		Disputes			ø	India – Israel Relations	
٦	South Ch	ina Sea Dispute		D	In	dia – Saudi Arabia	
		outes			o	Areas of Cooperation	
	• Resource	s as a Driver of Competition			ø	Challenges in relations	
	 Attempts 	for Resolution			A	sia-Pacific Region	
	 India and 	South China Dispute				-	
0	Security	Challenges in the Indi	an		0	Zones of Activity	
	Ocean Re	egion			0	Regional Groupings Geopolitics of Asia Pacific	
		to Asia – US Policy Shift					
	o South Ch	ina Sea- Issues of Mistrust			In	idia-South East Asia	
	● Piracy off	the Coast of Somalia			o	Steps in Indo-ASEAN Relations	
	 Neighbou 	urhood Issues and Terrorism			٥	India-ASEAN Security Co-operation	
				•	In	do-Japan Bilateral Relationsh	lip
		and Livelihood Issues				-	-
		ental Security			ø	Economy Centric Relationship	
	 Declaration of Peace 	on of Indian Ocean as Zone			ø	Contemporary Perspective	
		Asian Nations relations			In	idia – South Korea	_
2	2 India &	Asian Nations relation	c		ø	India South Korea Relations	Ц
<u> </u>			5		ø	Economic Partnership in Recent Years	
٦	CIS Cour	tries of Central Asia		D	In	dia-Vietnam	
	₀ India-Tur	kmenistan			ø	Economic Cooperation	
	๏ India-Kaz	akhstan			٥	Strategic Cooperation	
	๏ India Tajil				ø	Geo-political Issues concerning	
		d Central Asia			_	India-Vietnam Energy Cooperation	
	 Internation Corridor 	onal North-South Transport			© ©	China's Response India's Response	

2.	3 I	ndia & Other Nation	
٦	Iı	ndia and Africa	
	o	Historical Connections	
	o	Gandhi's Role	
	ø	Nehru's Role	
	ø	Strengthening of Ties	
	٥	South-South Engagement	
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	ø	Economic Cooperation	
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	o	Prime Minister's Recent Visit to France	
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	ø	India & BREXIT	
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	0	Area of Co-operation : Trade and Economic	
	0	Area of Co-operation: Energy and Climate Change	
	ø	Area of Co-operation: Science & Technology (S&T) and Space	
	ø	Area of Co-operation: People to People Ties	

	ø	Area of Co-operation: Defence Cooperation					
		Intellectual Property Issues					
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	0	India and International Organisations					
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	Θ	Quadrilateral Security Dialogue (QUAD)					
	O	India and Generalised System of Preference (GSP)					
3.	ľ	Nultilateral Relations					
٥	The World Trade Organization						
	Ø	Representation in the WTO and Economic Groupings					
	o	How the WTO takes Decisions					
	o	The WTO Secretariat and Budget					
	ø	How Countries Join the WTO					
	0	Assisting Developing and Transition Economies					
	ø	Specialized Help for Export Promotion					
	0	The WTO's Part in Global Economic Policy-making					
	o	Nairobi Package					
	o	WTO and protectionism					
	ø	WTO and IPR					
	ø	WTO reforms					
	o	WTO and India					
	0	WTO and Agriculture Issues of developing nations					
	ø	WTO and Free Trade Agreements (FTAs)					
۵	Ir	nternational Monetary Fund					
	o	International Monetary Fund (IMF)					
	o	IMF Reforms					
۵	N	uclear Security					
	o	Nuclear Security Summit					
	ø	Threats of Nuclear Terrorism					
	o	Missile Technology Control Regime (MTCR)					
	o	Nuclear Suppliers Group (NSG)					
	o	NSG Membership for India					
	o	Nuclear Non-Proliferation Treaty (NPT)					
٦	B	RICS					
	ø	Economic Environment in BRICS Countries					
	o	BRICS-BIMSTEC					
	o	BRICS & India					

۵	BIMSTEC			ø	United Nations Security Council (UNSC)	
	 BIMSTEC & India 			٥	India & UNSC	
	 Convention on Mutual Legal Assistance 			ø	Economic and Social Council	
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_	IBSA			ø	UN Specialised Agencies	
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	 India's Policy Options 			Θ	International Labour Organization (ILO)	
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0	SAARC			٥	International Telecommunication Union (ITU)	
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	• Problem of Resource Development			0	International Fund for Agricultural Development (IFAD)	
٥	India-ASEAN Economic			o	World Health Organization (WHO) and	
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	 Vietnam 			ø	WIPO	
	 Indonesia 			o	World Bank	
	 India ASEAN FTA in Service 			ø	International Monetary Fund (IMF)	
4.	Global Institutions		5.	I	mportant Key Concepts	
	• United Nations & its Bodies			ø	New World Order	
	 Structure of United Nations 			٥	Dynamics of New World Order	
	 United Nations General Assembly (UNG, 	A) 🗖		o	New Cold War?	

CONTEMPORARY ISSUES

٥	The Pandemic Induced BRI: Then, Now and What Next?	
٥	China's fi rst railway link to Indian Ocean	
٥	Minilateralism: Weighing the Prospects for Cooperation and Governance	
ø	Why the US has changed its mind on Nord stream 2 pipelines?	
o	US in Afghanistan	
ø	On the Quad, define the idea, chart a path	
٥	AUKUS Security Alliance	
٥	Teesta Dispute and India-Bangladesh Relations	
٥	BIMSTEC needs to reinvent itself	
ø	India and Sri Lanka re-injects	

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Ø	Myanmar's Protest and what led to Military Coup in Myanmar	
0	Arctic Ocean and its Relevance	
0	Continuity in India's ties with Central Asia	
٥	Gilgit-Baltistan: An Integral Part of India	
o	India's Foreign Policy	
0	India and RCEP	
0	EU-China deal: short-sold by EC, a reversal ahead	
٥	India, UAE formally launch CEPA negotiations	
ø	Tibet returns as fulcrum point between US and China	

- US, Japan, Australia reviving 'Blue Dot'
- India should have permanent seat in UN □ Security Council, says US
- Maritime Opportunities for India-France -Japan Trilatera
- Need for Reforms in UN

 Virtues of Soft Power
 China's Presence in Arabian Sea & its Implications on India
 The Refugee Crisis
 India' Advancement in Defence Technology and its Impact on "Act East Policy"

ECONOMY

BASIC ECONOMY

Indian Economy and issues relating to planning

ø	Indian Economy in Pre-independence Period				
ø	Economy on Eve of Independence				
ø	Ch	allenges			
o	Fea	tures			
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0	Ag	iculture and	l its development so far		
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ø	Gro	wth & Deve	elopment		
	>	Economic G	rowth in India:		
		 National 	Income Determination		
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		♦ GNP			
		NDP			
		NNP			
		 Personal 	Income		
	•	Economic G Developme	rowth versus Economic nt		
	>	Measures o	f Economic Development		
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	 Real gross national product 	
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٥	Sources of resource mobilization: Public Sector and Private Sector	
٥	Savings and investment over the five year plan	
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ø	Multilateral agencies and resource mobilization	
Ιr	clusive growth and issues	
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ø	Meaning and concept of Inclusion	
٥	India's experience	
ø	Social sector initiatives and inclusion process	

o	Ground reality and working of flagshi	р 🗆	0	Inv
	schemes	_		0
0	India's growth story in this context Rural economy based growth			© \$
0 0	Need of Sustainable agriculture,			•
	food security and resilience for growt			◎ (
0	Public distribution schemes: Way to inclusive growth.			• F • (
0	Financial inclusion as an instrument o inclusive growth.	_		₀] ₀
0	Poverty Alleviation and Employment			•
	Generation as a strategy for inclusive growth			
0	Social sector development as an instrument for inclusive growth.			
0	Public private partnership for inclusive growth	e 🗆		>
0	Industrial Integration for inclusive growth			o F
o	Sectoral and regional diversification as a tool for inclusive growth.			• F
0	Governmental Schemes and Policies f Inclusive Growth	or 🗆		• • • • • • • • • • • • • • • • • • •
	 Pradhan Mantri Jan Dhan Yojana 			
	 MUDRA (Micro Units Developmen and Refinance Agency) Bank 	it 🗆		• F • I
	 Self Employment and Talent Utilization (SETU) 			(o (
	Skill India	_		₀ [
	 Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA) 			>
	 Kisan Card 			>
	 Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) 			∘ E Tax
	► National Agriculture Market (NAM	1)		Id
	 Pradhan Mantri Jeevan Jyoti Beem Yojana 	na 🗆		0 1 0 F
	 Pradhan Mantri Jeevan Suraksha Yojana 			⊚ (
	 Atal Pension Yojana 			0] 0]
	 Digital India programme 			• I • (
G	overnment Budgeting			0
o	Budget, Economic Survey			o 1
o	Budget terminology			◎ (
o	Types of budget			o F
ø	Features of outcome budgeting		•	Mo
0	Merger of Railway and General Budge			οl
Θ	Benefits of budgeting			• N
Θ	Flaws in budgeting process			(
0 0	Budget analysis Subsidy			●
U	Subsidy		1	(

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o	Need for Investment	
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o	Tax System in India	
o	Current Taxation Policy of India	
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0	Instruments of Monetary Policy	
0	Monetary policy in pre-reform Era (1948 – 1991)	

- Monetary policy in pre-reform Era (1948 – 1991)
- Monetary Policy in Post-Reform Era (Since – 1991)

	٥	Urjit Patel Committee Report		6	9	Development Finance Institutions:	
	ø	Monetary Policy Committee and				IFCI, ICICI, SIDBI, IDBI, UTI, LIC, GIC	
		Inflation Targeting		6		New Bank Licence Criteria	
	Fi	nancial system		6		Non-Banking Financial Company (NBFC)	
	o	Indian Financial System – An Overview		6		Financial Inclusion in India: Need and future; PMJDY; Payment Banks and Small Banks	
	ø	Components of Indian Financial System			_	NPAs	
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		Paper)			01	rganisations	
		 Financial Services (Banking Services, Insurance Services, Investment Service) 	∟ s,	G	Э	International Trade	
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		Indian financial market and Pandemic				 Capital Account 	
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	B ∂ ₀	Banking in India: Definition, Structure		e			
		Banking in India: Definition, Structure and Functions		G		 India's BOP Performance: Balance of Payment versus Balance of Trade Current Account versus Capital 	_
		Banking in India: Definition, Structure and Functions Origin of Banking system				 India's BOP Performance: Balance of Payment versus Balance of Trade Current Account versus Capital Account 	_
	Θ	Banking in India: Definition, Structure and Functions Origin of Banking system Type of Banks in India		G	Ð	 India's BOP Performance: Balance of Payment versus Balance of Trade Current Account versus Capital Account Foreign Capital 	_
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	0	 Banking in India: Definition, Structure and Functions Origin of Banking system Type of Banks in India Central Bank (Reserve Bank of India) Cooperative Banks Commercial Banks Public Sector Banks (State Bank of India) Private Sector Bank (HDFC Bank) Foreign Banks (CITI Bank) Regional Rural Banks Local Area Banks Specialized Banks (SIDBI Bank, NABARD) Small Finance Banks (Airtel Payment Bank) Nationalization of Banks in India 			9 9 9 9 9 9 9 9 9 9 9 9	 India's BOP Performance: Balance of Payment versus Balance of Trade Current Account versus Capital Account Foreign Capital Impact of Globalization on Indian Economy FDI and FPI in India, External Commercial Borrowings Foreign Exchange Rate Determination in India Types of Exchange Rate Capital and Current Account Convertibility in India The Bretton Woods Twins: World Bank International Monetary Fund World Trade Organisation (WTO) and India ADB, NDB, BRICS Bank, AIIB 	

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AGRICULTURE

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Role of Agriculture in Indian Economy

- Situation of Indian Agriculture
- Historical background and current status
- Cropping Patterns: Types of Cropping Systems: Mono-cropping; Crop Rotation; Sequential Cropping; Inter Cropping; Relay Cropping
- Issues related to direct and indirect farm subsidies and minimum support prices
 - Farm Subsidies in India: Definition;
 Working; Need; Negative Impacts
 - Types of Farm Subsidies in Indian Agriculture: Irrigation and Power Subsidies; Fertilizer Subsidy; Seed Subsidy; Credit Subsidy
 - ➤ Government Intervention in Indian Agriculture
 - Minimum Support Prices in Indian Agriculture: MSP definition; Working; Issues; Drawbacks; Way Ahead; Buffer Stocks
 - Public Distribution System in India:
 Definition; Issues; Working; Need;
 Disadvantages
 - ► Targeted PDS in India, Antyodaya Anna Yojana (AAY), Alternative to the PDS, Direct Benefit Transfers, National Food Security Act
- Agriculture Marketing
- Major crops: Major cropping patterns in different parts of the country, different types of irrigation, transport and marketing of agricultural produce and issues and associated constraints; e-technology for farmers
- Conclusive Land Titling
- Biotech-KISAN Program

Land resource

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

Land Reforms

- Land ownership patterns under the British rule
 - Zamindari System (Permanent settlement of Bengal)
 - ► Ryotwari System
 - Mahalwari System
- Land reforms since independence
- Objectives of land reforms in India
- Progress of Land Reforms in India
- Progress of Ceiling Legislation
- NITI Aayog Report on Land Leasing
- SVAMITVA (Survey of Villages and Mapping with Improvised Technology in Village Areas)

Agriculture Finance

- Features of Agricultural Finance o Criteria for Agricultural Credit o П Need for Agricultural Finance o Sources of Agricultural Finance o Problems of Agricultural Finance o Measures taken to improve credit flow o to agriculture Co-operative Credit Societies in India \Box o П Derivate Trade in Agriculture 0 Commodities **Important Schemes** Pradhan Mantri Kisan Maandhan o yojana **PM-Kisan Scheme** 0 \Box Paramparagat Krishi Vikas Yojana (PKVY) Pradhan Mantri Krishi Sinchai Yojana (PMKSY) Rythu Bandhu scheme **Agricultural Credit Institutions Commercial Bank** Lead Bank Scheme П П Multi Agency Approach
- Regional Rural Banks

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	Θ	National Bank for Agriculture and Rural Development (NABARD)		Θ	Transfer of resources from gainers from economic policies to losers from	
	٥	Reserve Bank of India			economic policies	
	٥	Kisan Credit Card Scheme		ø	Issues of buffer stocks and food security	
	0	Self Help Group (SHG) Bank Linkage Programme		o	Technology missions	
	0	Rural Infrastructure Development Fund (RIDF)		0	Economics of animal-rearing. Public Distribution System: Objectives,	
	٥	Government Policy For Agricultural Credit			functioning, limitations, revamping, evolution from universal PDS to targeted PDS, Targeted PDS, a critical analysis of	
	ø	Farmers Service Societies (FSS)			cost and benefit of PDS	
٦	С	rop Insurance in India		0	Buffer Stock policy and government's intervention in food market to keep prices	
	ø	Historical Background			under reasonable limits to help consumer	s —
	٥	Issues Related to Crop Insurance		ø	Food Security bill, questions of resource mobilization for the FSB, criticism of the	Ш
	ø	Pradhan Mantri Fasal Bima Yojana			FSB	
	Ø	Comparison with Earlier Crop Insurance Schemes		ø	Important questions on the future of subsidies	
	ø	Challenges		_		
	Ir	nportant Schemes		A	gricultural Revolutions in Indi	a
	-	- Dradhan Mantri Facal Pima Vajana		ø	Green Revolution	
	o	Pradhan Mantri Fasal Bima Yojana (PMFBY)		ø	White Revolution – Operation Flood	
	ø	Kisan Credit Card (KCC) scheme		ø	Yellow Revolution	
	ø	Soil Health Card Scheme		ø	Blue Revolution	
	o	National Mission for Sustainable		٥	Golden Fiber Revolution: Jute	
		Agriculture (NMSA)		o	The future of Indian agriculture	
	A	griculture Marketing		o	Data revolution in Indian agriculture	
		Dup good of A guing the up I Maglesting		ø	Artificial Intelligence & Agriculture	
	ø	Process of Agricultural Marketing in India		ø	Social Security Schemes for Farmers	
	٥	Structure of Agricultural Marketing in India	D	Fe	ood Processing	
	0	Importance of Proper Agriculture Marketing		ø	Food processing and related industries: Scope and significance,	
	٥	Government Measures to Improve Agricultural Marketing in India			location, upstream and downstream requirements, supply chain management.	
	o	Analysis of APMC Act		٥	Processed Foods Scenario with respect	
	٥	National Agriculture Market (e-NAM)			to Specific Sectors	
	Sı	ıbsidies		ø	Policy Initiatives	
				o	Infrastructure Development in Food Processing Sector	ш
	0	Subsidy in India		ø	Issues in Food Processing Sector	
		 Farm Subsidies 		0	FDI Policy in Food Processing	
		 Fertiliser subsidies 		0	Notable Trends in the Indian Food	
		 Subsidy on power Subsidy on irrigation 		5	Processing Sector	_
	-	 Subsidy on irrigation Issues related to direct and indirect farm 		o	Strategies Adopted in Budget	
	ø	subsidies and minimum support prices		o	New foreign and domestic investment	
	ø	Objectives of subsidies		ø	Sector-specific government policies	

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INDUSTRY

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Industrial policy and industrial development: Main Is sues

- Mahalanobis strategy and India's o industrial policy-Discussing Industrial policy resolution 1948 and 1956 critically
- New Economic Policy and Industrial o policy under the policy of
- Liberalization o
- Privatization 0
- Globalization o
- Phases of Industrial development o
- Effects of liberalization on the economy \Box o
- Changes in industrial policy and their o effects on industrial growth
- Impact on Different Sectors of the o Economy
- Main features of Industrial n development in India
 - П Roles of private sector and public o sector, Investment in the industrial sector, employment, productivity, profit etc.
 - Strategies for disinvestment and o privatization

- Role of Small, Medium and Micro enterprises, Government Policy, main problems, effects of globalization
- New Manufacturing Policy 0
- Industrial disbursal and Industrial corridors
- SEZs- Main issues like land use. relocation of same industries that exist, exports earnings vs loss of tax income
- П 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
- Transformation of MSME sector and impact on India

INFRATSRTUCTURE

- Impact of Infrastructure-Economic o Impacts, impact on social development, Environmental impacts
- Transport Θ
 - Ports ►
 - ٠ Ocean transport routes
 - Inland waterways
 - Main regions of inland waterways ٠
 - Roads
 - Importance
 - Government push towards Road \Box ٠ Infrastructure
 - National Infrastructure pipeline
 - Bharatmala Pariyojana
 - Airports
 - Air routes & Significance ٠
 - Factors influencing air transport •
- \Box Railways ► Railways: Factors affecting the ٠ railroads П Distribution of railroads in the world Energy (Pipeline) ► **Energy Pipeline Transport** ٠ Petroleum (oil) Pipelines **Gas Pipelines** Importance and development of transport Means of transport Transport costs and economic distance Operating costs in transport Government's transport policy П Transport patterns in the world \Box
- o Transport costs and specialization

Transport and trade in the modern era

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- Transport costs and scale economies
- Falling transport costs increase trade between neighbours
- Failing 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 \Box
- 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

Important Schemes

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

Recent Development

0	Pulses for Food Security and Sustainable Future	
o	General Insurance Amendment Bill	
ø	Pandora's papers	
o	National Urban Digital Mission	
ø	'One District One Product: A Potential Game changer'	
ø	Proposition 22: The Future of the Gig Economy	
ø	Central Bank Digital Currency	
٥	Virtual Currencies	
o	Taxing Virtual Currencies	
ø	G-SAP 1.0: Securities acquisition plan to boost the market	
ø	G7 Corporate Tax Deal	
ø	Major reforms in Natural Gas Marketing	
o	National Monetisation Pipeline	
o	National Mission on Edible Oil	
o	Zero defect zero effect scheme	
o	World Hunger Index 2021	
o	World Inequality Report	
o	India's telecom sector and issues	
ø	Shifting towards Green Energy	
ø	Gig Economy and India	
ø	The State of Food and Agriculture 2021	
ø	Fertiliser Shortage in India	
ø	World Employment and Social Outlook – Trends 2022 report	

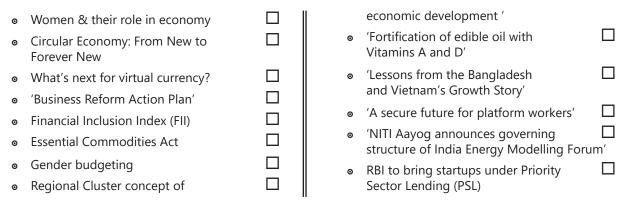
 e-Gram Swaraj e-Financial Management □ System

CONTEMPORARY ISSUES

ø	Global Hunger Index 2021	
o	Data revolution in Indian agriculture	
ø	Bad Bank to Clean up the Balance Sheets	
ø	Privatization of Banks	
ø	Conclusive Land Titling	
٥	'One District One Product: A Potential Game changer for Northeast Economies'	
٥	Proposition 22, the future of the gig economy	
ø	Taxing Virtual Currencies	
ø	GDP is no longer an accurate measure of growth	
o	RBI to introduce Central Bank Digital	

Currency: deputy governor

Θ	What the G7 corporate tax deal means for India?	
Ø	Interim report of 15th finance commission: Continuity and fiscal follow through	
ø	National Monetisation Pipeline	
ø	PM Gati Shakti Master Plan	
ø	Artificial Intelligence & Agriculture- use of ICT in farming	
ø	Role of NITI Aayog	
Θ	Credit Rating Agencies: Credibility and Accountability	
ø	Concept of Crypto-Currencies	
o	Practice of Agriculture Loan Waiver	
ø	Consolidation in Banking Sector: Pros & Cons	



SCIENCE & TECHNOLOGY

CHEMISTRY

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Elements and molecules o

- States of Matters Θ
- Atomic structure Θ
- Chemical bonding o
- Metals and non-metals Θ
- Metallurgy o
- Acid and base o
- Applications of electrochemistry o (Battery and Charging devices)

- Properties of solution П Θ Chemicals in everyday life Π o Polymers and Biopolymers o \Box Chemistry of Pharmaceuticals o Π Carbon and its allotropes o Hydrocarbons and their derivatives П o **Biomolecules** o П
- Vitamins and Enzymes Θ

- Properties of fundamental particles Θ
- **Fundamental forces** o
- o Energy and its various types
- Optics
- Electromagnetic spectrum Θ
- Laws and theories in physics, Relativity o
- Electromagnetism Θ
- Heat and thermodynamics ο
- Waves o
- Mechanical o
- Electromagnetic waves o

- Universe П o Planets, stars, and galaxies \square o Big-bang theory and singularity Dark matter and energy Black holes П Neutrino Observatory o Gravitational Waves П \square Sunspot Θ Magnetars and Neutron stars o
- Sub-atomic particles 0
- BIOLOGY
- **Chemical Building Blocks of Life**

Diversity of Living Things n

- **History and Origin of Life**
- Classification and Domains of Life

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PHYSICS

• • • • • • •	Prokaryotes Eukaryotes Protists Plants Fungi	 Excretion, Osmoregulation and Thermoregulation The Digestive System Immune system Nutrition Classification by Source of Energy and Carbon Plant Nutrition
0	Human Evolution	 Animal Nutrition Human Diet
C (0 0 0 0 0	DNA and RNA Gene Expression Gene Regulation	 Plant physiology Photosynthesis Respiration Plant-water balance Reproduction Economic Zoology
	 Membranes Cell-Cell Interactions Respiration Energy and Metabolism Cells Division Tissues Epithelial tissue Connective tissue Muscle tissue Nervous Myocardial 	 Microbes in Human Welfare Beneficial animals Beneficial insects Economic botany Family of angiosperms Tissue culture Grafting Horticulture Imaging techniques CT scan Magnetic resonance imaging Positron emission tomography (PET) Biological fuel generation
- - - - - - - - - - - - - - - - - - -	Endocrine System Respiratory system Circulatory system Skeletal and Muscular Systems	 Generation and significance of fossils fuels Biofuels from biomass Biodiesel Natural gas and petroleum Hydrogen

BIOTECHNOLOGY

- Genetic engineering, process, and application
- **D** Genomics

- **n** Proteomics
- RNA types and technology

	Genome sequencing and its applications	 Application of Biotechnology in agriculture
٦	Application of biotechnology in Environment	GM technology GM crops Pest Resistant Plants
0	 Bio composting Bioremediation Microbial remediation Carbon capture Technology Plant biotechnology	 Biotechnology and medicine Gene Editing Gene therapy Molecular Diagnosis PCR
	 Transgenic plants Methods and application of Plant biotechnology Animal biotechnology Transgenic animals Methods and application of Animal biotechnology 	 ELISA Antibody-Antigen interactions and detections Embryo transfer technology Stem cells and their engineering Biopharmaceuticals/therapeutic proteins
	 Application of Biotechnology in Food and beverage industry Bioprocessing Bioreactors Manipulation of Enzymes Food processing Single cell protein 	 Brain fingerprinting technology Bioethics and Biopiracy Biosafety protocols IPR in Biotechnology Bocont tronds in biotechnology
	 Food fortification 	 Recent trends in biotechnology and applied biotechnology

HUMAN HEALTH AND DISEASES

Human Diseases

- Common diseases in human and their causative agents
- Diseases due to nutrient deficiency
- Molecular biology and human disease o
- Chromosomal inheritance and disease
- Extra chromosomal inheritance and o disease
- Vector borne diseases
- Water borne diseases
- Lifestyle diseases
- **Immunity and its types**

- **Vaccination and Immunisation** D
- **Vaccination program of India**

Medicines

- Antibiotics • Antiviral and antifungal drugs • Monoclonal antibodies therapy Antimicrobial drug resistance Drug formulations o
- Π Drug pricing in India o
- Pharmacogenetics o

SPACE

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- **•** Types of orbits
- Types of Launch Vehicles and application
- Space missions of key space agencies
 - o NASA
 - ₀ ISRO
 - ₀ ESA
 - ROSCOSMOS
 - ₀ JAXA
 - CNSA
- ISRO and its role in national development
- Private sector in space
- Public-private partnership in space sector
- Space technology
 - Cryogenics
 - Nanosatellites
 - Electric Propulsion
 - Aviation Internet, Starlink communication

Satellite communications o Remote sensing and its applications o Ground Segment-As-A-Service o Green Propellant o Deep Space Atomic Clock o Strategic dimensions Space weapons o A-SAT technology o Laser technology o HGV technology o International space collaboration ۵ Various space observatories D Various telemetry ۵ **Navigation** D Global Positioning System o Π Galileo GLONASS ົ Π IRNSS 0

DEFENCE

- Missile system and classification
- **b** Ballistics and cruise missile
- India's Missile System
- Integrated guided missile program
- Missile defence programmes
 - Defence Technology
 - Application of robotics in defence sector \Box
 - Application of AI in defence

• Internet of Military Things (IoMT)

Geopolitics of outer space

- Cyber warfare, and preparedness
- Drone technology
- Unmanned Aerial Vehicle
- Stealth technology
- Advanced Defense Equipment
- Air Defence system
- 3-D printing missiles
- Lethal Autonomous Weapons
- Hypersonic technology
 - ► Hypersonic glide vehicles
 - ► Hypersonic cruise missiles

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Weapon system

- Classical weapons
- Weapon of mass destruction
- Fission and fusion bombs o
- **Chemical Weapons** o
- **Biological Weapons** o
- **Directed Energy Weapons** o

Defence reforms n

o CDS

Π Various committees and ົ recommendations **Domains of warfare Defence platforms** Submarine \Box Aircraft carrier Combat aircraft **Defence Organizations and** ٦ laboratories

Defence Exercises D

NUCLEAR ENERGY

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Types of nuclear reactions

- **Nuclear Energy and its** n application
 - Civil and military applications of Nuclear Energy
- Nuclear fuels and centrifugation D
- **Nuclear Reactor**
- **Nuclear Policy of India**

- **Nuclear Radiation and its impact** D
- **Radioactive Waste** D
- **Nuclear & Radiological Disasters** D
- D Institutions involved in nuclear energy Development
 - Department of Atomic Energy
 - Atomic Energy Regulatory Board o
 - Bhabha Atomic Research Centre
 - Indira Gandhi Centre for Atomic 0 Research

ELECTRONICS AND TELECOMMUNICATIONS

Computers

- Generation of computers
- Computer terminologies o
- Supercomputer and its applications o
- Cloud computing o
- Information technology
 - Components of IT
 - IT enabled services o
 - Application of IT

Display technologies

- Cathode ray
- LCD o

- LED **Plasma Monitors** OLED AMOLED
- **Mobile generations** ۵
- Smartphone ٥

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- **Net Neutrality**
- **Internet of Things** ٦
- **Big Data Initiative and Privacy**
- **Cyber-crime and security** D
- Government initiatives n

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NANO SCIENCE & NANO TECHNOLOGIES

Basics of Nan science and Nanotechnology

n Nanomaterial

n Applications of nanotechnology

- Nano medicine
- Semiconductors and computing
- o Food
- Textiles
- Sustainable energy

Environment

Transport

- Space
- Agriculture

Impacts of Nanotechnology

- Adverse Health and Environmental
- Social and Ethical Impacts
- Nano-science and nanotechnology in India

ROBOTICS AND AI

n Robotics

- Machine vs Computer vs Robots
- Parts of a Robot
- Classification of Robots
- \circ Advantages and Disadvantages of Robot \Box
- Applications of Robotics in Agriculture, industry, defence, etc.

n AI

- Neural networks
- Machine Learning and Deep learning
- Application of Al
- Artificial Intelligence and Robotics

IPR

- n IPR
 - What are Intellectual property rights (IPR)?
 - Types of Intellectual Property Rights

- International Agreements and institutions on IPR
- IPR Regime in India
- National Intellectual Property Rights Policy

INSTITUTIONS & POLICY

Institutions & Policy

- India's policy in the field of the science and technology
- Various policies for S&T
- Institutional structure
- Department of Science & Technology

- CSIR
- Science and Engineering Research Board
- 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

- India and global collaboration in science projects
- Technology Vision Document 2035

CONTEMPORARY ISSUES

o	Electric vehicle	
٥	Artificial intelligence	
o	Net neutrality	
o	Importance of own Navigation System	
o	Big Data Initiative	
ø	Nuclear Technology: Pros and Cons	
o	Computer Games addiction and dangers	
ø	A Web 3.0 revolution that could relieve us of our social dilemmas	
٥	Surveillance reform: The need of Hour	
o	'5G countdown'	
o	Deep Fakes	
٥	Pulse oximetry and importance of oxygen	
o	Geopolitics of outer space	
o	Launch of ISpA	
٥	PM releases First non-GM Herbicide- Tolerant Rice Varieties	
ø	National Policy for Rare Diseases (NPRD) 2021	
٥	Liberalisation of the geospatial sector in India	
o	e-Technology to the aid of farmer	
0	ISRO to handle projects of national security	
ø	India to Launch Deep Sea Mission	
o	Brain fingerprinting technology	
ø	DNA Technology (Use and Application) Regulation Bill, 2019	
o	Space Security	
o	Sending Humans to Mars	

o	Synthetic Biology	
Θ	Artificial Intelligence and its Climate Cost	
o	'Tobacco behind more than a quarter of India's cancer cases'	
o	Herd Immunity	
o	'H9N2'	
Θ	'India's population is expected to be more feminine in 2036'	
o	The contact tracing technology	
o	'Desalination Plants'	
o	Discovery of Li-rich giant stars	
o	First-ever digital geological map of moon	
Θ	NASA's Artemis mission, and the Indian American in its new astronaut cohort	
o	'Polycrack Technology'	
o	Huntingtin Disease	
Θ	'Abhyas High-speed Expendable Aerial Target (HEAT)'	
o	'Supersonic Missile Assisted Release of Torpedo (SMART) system'	
o	NASA's Spitzer Space Telescope	
o	Mars Insight Mission	
o	"Voyager 2"	
o	'Omega Centauri globular cluster'	
o	NEON: The Virtual Human	
ø	"Genome India Project"	
o	"GISAT-1 mission"	
o	'Ariel Space Mission'	
o	National Space Promotion and Authorization Centre (IN-SPACe)	

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ECOLOGY & ENVIRONMENT

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1. Ecology

- Types of Ecology
- **Ecological Hierarchy**
- Scope of Ecology o
- Habitat & Ecological Niche
- Deep vs Shallow Ecology o
- **Ecological Principles** o
- Ecological Community Θ
 - 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 Θ
- Difference between Ecology, Environment and Ecosystem

2. **Ecosystem and its dynamics**

- **Ecosystem Definitions** o Functions and Properties of Ecosystem o
- The Structure/Components of Ecosystem 0
 - ► Abiotic Components
 - Biotic Components
- Ecosystem Dynamics
 - ► Flow of Energy in Ecosystem
 - Trophic Levels
 - Food Chain
 - Types & Significance of Food Chain

Food Web Π Models for Energy Flow П Π **Ecological Productivity** Ecological Pyramid П **Biomagnifications** П **Biological Control** П **Organic Farming** o

Biogeochemical Cycles 3.

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

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

- Biome П 0 Grasslands Π Tundra
- Deserts o
 - Thar desert
- Mountain biome

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

- Aquatic ecosystems
- Basic facts about the ocean o
- Importance of the ocean
- Zones of the ocean 0
 - Marine life
- Coral reefs

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8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	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. 1	Biodiversity Basics	
٥	Biodiversity	
٥	Important kinds of biodiversity	
Ø	Degree of diversity in an ecosystem	
	Endemic species	
Θ	Keystone species	
٥	Indicator species	
٥	Invasive species	
Ø	Allopatric and sympatric speciation	
٥	Bioinformatics	
	 Biodiversity distribution 	8.
Ø	Megadivers Countries	
Ø	Uses and values of biodiversity	
٥	State of global biodiversity	
Θ	Threats to biodiversity	
٥	Biodiversity Hotspots	
٥	Eco-regions	
Ø	Role of traditional knowledge in biodiversity	
٥	Biopiracy	
٥	Extinction of species	
٥	Mass extinction	
٥	IUCN's classification scheme	
٥	IUCN Red-List of Threatened Species	9.
٥	Level of biodiversity in India	
٥	Biogeographi classification of India	
7. 1	Biodiversity Conservation	
٥	Ex-situ aid in-situ conservation	

	0 0 0	Seed banks Zoos in biodiversity conservation Botanical gardens	
	0	Protected areas	
	© ©	State of protected areas in the world UNESCO Man and the Biosphere Program (MAB)	
	0	Characteristics of biosphere reserves	
		 International agreements for biodiversity conservation 	
	o	Convention on Biological Diversity	
	o	Cartagena Protocol	
	o	Nagoya Protocol	
	o	Aichi Biodiversity Targets	
		 Important Coastal and Marine Biodiversity Areas of India 	
	0	Important Bird Areas (IBAs) of India	
	o	Global Tiger Initiative	
	ø	Project Tiger	
	0	Project Elephant	
	o	Indian Rhino Vision	
	Ø	Recovery Programme for Critically Endangered Species	
		 Use of indigenous knowledge for conserving biodiversity 	
		 Seed village 	
8.	_	 Seed village ffect of Human Activities on invironment 	
8.	_	ffect of Human Activities on	
8.	E	Effect of Human Activities on Invironment Effect of Modern Agriculture on	
8.	e	Effect of Human Activities on Invironment Effect of Modern Agriculture on Environment	
8.	● ◎	Effect of Human Activities on Invironment Effect of Modern Agriculture on Environment Effect of Housing on Environment Effect of Power Generation on	
8.	© 0	Effect of Human Activities on Invironment Effect of Modern Agriculture on Environment Effect of Housing on Environment Effect of Power Generation on Environment Effect of River Valley Projects	
8.	• • •	Effect of Human Activities on Invironment 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	
8.	● ● ● ●	Effect of Human Activities on Invironment 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	
8.	• • • • •	Effect of Human Activities on Invironment 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 Human Activities on Invironment 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 Effect of Tourism On Environment Effect of Tourism On Environment Water Cycle (Hydrological Cycle)	
	• • • • • • •	Effect of Human Activities on Invironment 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 Effect of Tourism on Environment	

0	Fluoride Problem in Drinking Water Arsenic Problem in Drinking Water	
-	Ainerals & Environmental Degradation	
٥	Mining and Environment	
٥	Sensitivity of Select Ecosystems to Mining	
ø	Impact of Mining	
٥	Indirect Impact of Mining	
٥	International Laws on Mining	
٥	Main Act or Statue to regulate the impact of Indian Mining Sector	
٥	Sustainable Mining	
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ø	Causes of Deforestation	
٥	Implications of Deforestation for Climate Change	
٥	Consequences of Deforestation on the Wildlife of India	
٥	Impact of Deforestation on Indian Monsoon	
٥	Impact of Deforestation on People	
٥	Deforestation Leads to Water and Soil Resources Loss and Flooding	
o	Economical Impacts	
٥	Strategies for Reducing Deforestation	
٥	Government Programmes for Conservation of Forests	
٥	Legislations for Conservation of Forests using People Participation	
٥	Steps for Improving People Participation in Forest Resource Management	
٥	Use of Local Traditional Methods	
12. V	Vaste Management	
ø	Solid Waste	
٥	Hazardous Waste	
ø	E-Waste	
o	Bio Medical Waste	
٥	Plastic Waste	
٥	Methods for Waste Management	
٥	Effects of Poor Waste Disposal	
٥	Landfill	
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٥	Principles of sustainability	

٥	Measurement of Sustainability or Sustainable Ethics or Equitable Utilisation of Natural Resource	
٥	Sustainable Lifestyle (Role of an individual in sustainable, development)	
٥	Challenges to Sustainable Development	
٥	International Efforts to Achieve	
	Sustainability	
14. H	Environmental Pollution	
ø	Air Pollution	
٥	Sources of Air Pollution	
٥	Effects of Air Pollution	
٥	Classification of Air Pollutant	
٥	Control Measures of Air Pollution	
ø	Air Pollution Disasters	
٥	Long Range Transport of Gaseous Air Pollutants	
٥	National Ambient Air Quality Standards	
٥	Water Pollution	
٥	Sources of Water Pollution	
٥	Types of Water Pollutants	
٥	Effects of Water Pollution	
٥	Water Quality Standards	
٥	Control of Water Pollution	
٥	Thermal Pollution	
٥	Sources of Thermal Pollution	
٥	Effects of Thermal Pollution	
٥	Control of Thermal Pollution	
٥	Soil Pollution or Land Degradation	
٥	Sources of Soil Pollution	
٥	Effects of Soil Pollution	
٥	Control Measures	
٥	Noise Pollution	
٥	Air-borne Diseases	
٥	Toxic Substances: Toxicant, Toxicity and Toxicology	
ø	Factors affecting toxicity	
٥	Carcinogens	
15. S	olid Waste Management	
ø	Sources of Solid Waste	
٥	Effect of Solid Waste	
٥	Control Measures of Solid Waste	
٥	Solid Waste Management Rules	

Hazardous Waste Management (HWM)

16. 0	Coastal Ecosystem Manageme	ent		ø	India's Wetland Report, 2016	
	Mangroves			٥	Deep Sea Mining	
0	Salient features of Mangroves			٥	Mass Coral Bleaching	
0	Importance of Mangroves			٥	Ganga River Pollution	
	Mangroves in India		15	2 1	Environmental Impact	
0	Mangroves under threats				Assessment	
0	Legal and Regulatory Approaches for					_
0	Protection			0	Government Body which Executes EIA Environmental Effects Analysed under	
٥	Estuaries			Θ	EIA	
٥	Importance of estuaries			ø	Process of EIA	
ø	Threats to estuaries			٥	EIA Ruling 1984	
ø	Coral Reefs					
ø	Geographical Conditions Required		15). I	Environmental Laws	
ø	Uses of coral reefs			٥	Environmental Laws: Provisions in	
ø	Conservation of coral reef				the Indian Constitution towards Environmental Protection	
ø	Steps for Coastal Ecosystem			ø	Salient Features of Air (Prevention	
	Management				and Control of Pollution) Act,1981*	
				ø	Salient Features of Water (Prevention and Control of Pollution) Act, 1974	
17. I	Recent developments			ø	Salient features	Г
٥	Air Pollution				of Forest Conservation Act, 1980	
ø	Report on Air Pollution			٥	Salient Features of	
ø	Bharat Stage Emission Standards			-	Wildlife Protection Act,1972 Salient Features of Environment	_
٥	Polluters Pay Model			Θ	(Protection) Act,1986	L
٥	Household Air Pollution			ø	Role of Government in	
٥	Open Waste Burning and its Impact				Environmental Protection	
٥	Graded Response Action Plan on		20).]	Environment related Institutio	ns
	Pollution	_			and Organizations	-
٥	UN Sets Limits on Global Airline Emissions			0	Pollution Control Boards	
ø	Waste Management			o	National Green Tribunal	
ø	Biodegradable Plastics			o	Forest Survey of India	
o	Green Train Corridors			ø	National Board for Wildlife	
ø	Oil Spill					
o	Solid Waste Management-Buffer Zone		21		Schemes	
ø	Other News			٥	Ecomark Scheme	
ø	Report of Parliamentary Committee			٥	National Afforestation Program	
	on Forest Fires			٥	National River Conservation Plan	
٥	Urban Forestry Scheme			ø	National Mission for Clean Ganga	
٥	Draft Notification to Regulate Pet Shops			٥	National Air Quality Index (AQI)	
٥	Ban on Import of Animal Skin			٥	National	
٥	River linking Project and Impact on			٥	Action	
	Environment	_		ø	Programme to Combat Desertification	
٥	Algal Bloom Issue			ø	UJALA Scheme	
٥	Illegal Salt Mining and its Impact		11	٥	Bharat Stage Norms	

	nternational Environmental Governance	
٥	UNEP	
٥	UNDP	
ø	Centre for Biological Diversity	
ø	WWF for Nature	
ø	IUCN - Red List	
٥	Birdlife International	
٥	International Conventions / Protocols & their Objectives	
23. I	Basics of Climate change	
٥	Green House Effect and Global Warming	
٥	Global Climate Change: International	
	Efforts to Control Global Warming or Global Climate Change	
Ø	5	
0	Global Climate Change	
-	Global Climate Change Ozone Layer Depletion or Ozone Hole	
ø	Global Climate Change Ozone Layer Depletion or Ozone Hole Acid Rain	
© © ©	Global Climate Change Ozone Layer Depletion or Ozone Hole Acid Rain El Nino	

Pollution in metros and climate change

Real estate boom and environment o degradation Urban Heat Island o Polythene bags and pollution П o Methane generation from waste o 25. Impact of agriculture on climate Agriculture increases o Carbon Dioxide Emissions Monoculture practice impacts biodiversity o Pollution due to use of chemical fertilizers o Soil-related effects П 0 Fertilizer's Effect on the Environment 0 Impact of livestock on environment П o Impact of use of Pesticides on П environment Impact of GM crop on environment o Emission of Methane from agricultural practices Sustainable Agriculture Techniques Π o 26. Global Warming & Health Health impacts of global warming \square o Mosquito-borne diseases П o Ozone depletion and human health П ര

CONTEMPORARY ISSUES

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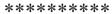
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- Demand of Organic Farming showing upward trend'
- 'The concept of Precision farming in India'
- Canada's Milne ice shelf collapsed'
- 'Arctic Ice fails to refreeze by late October, setting a new record'
- A quarter of Bangladesh has been inundated with floodwaters: NASA
- 'Net zero by 2060: China's bold new carbon emissions goal'
- 'Conservation of the world's seagrasses'
- 'Aldabra's coral reefs recovered faster from bleaching, finds new research'
- Locust attack in India
- Conserving the Western Ghats
- Delhi gets its first smog tower: What is it and how does it work?
- 'Kamdhenu Deepawali Abhiyan' П "Sukhna Lake becomes a 'living entity'" o World to suffer \$10 trillion loss by 0 2050: WWF 'Kerala to curb alien plants' growth in NBR' Puntius sanctus 0 Ecological disaster at Baghjan П 0 'Link between climate change and \square o wildfires' Black carbon deposits on Himalayan o glaciers Massive plastic pollution footprint 0 Trimeresurus Salazar П 'Komodo dragons could become o extinct soon due to climate change' 'Highest number of wetland species \Box o in Kaziranga'

- Mud packs and other remedies to save the Taj from pollution, age and insects
- Air Pollution
- Carbon Tax and Feasibility in India
- Demand for Renewable Energy
- India's Waste Management Crisis
- Polluters Pay Principle
- Public Participation in Environment Management
- E-Waste: Treasure or Threat?
- Why is it difficult for India to get to net zero?

World Freed from Toxic Lead: UNEP o Wildfires: Good servant bad disaster П o Human-Wildlife Conflict П o Plastic waste management rules o on beating Plastic Pollution Circular Bioeconomy П o Harnessing the Power of India's o Forests for Climate Change Mitigation Carbon Capture, Utilisation & Storage \Box o (CCUS) Ancient Bawadis and Water o П Management Interconnected Disasters Risk o \Box



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INTERNAL SECURITY

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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
- Drug trafficking in India
- 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 □
- Covid 19 and Naxalism
- Why naxalism got huge support from common man?
- Why naxalism is biggest threat to internal security?

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5.	1	Insurgency in North-East	
	o	Issues & Conflicts	
	o	Assam Insurgency	
	o	Resolving the Bodo Issue	
6.		Security Challenges in Border	
	1	Areas	
	o	Challenges to Border Management	
	o	Issues Faced in Border Management	
	o	Community Participation for Border	
		Management	
7.	I	Basics of Cyber Security	
	o	Types of Cyber Crimes	
	o	Impact and Steps needed	
	o	Recent Incident: Ransomware	
	0	India's Cyber Security Infrastructure	
	0	The National Cyber Security Policy of India 2013	
8.	(Cyber Warfare	
	0	Factors Contributing/Aggravating Rise of Cyber Attack	
	o	Recent Initiatives for Tackling Cyber	
		Warfare	
9.	S	Social Media and Internal	
		Security Threat	
	0	Regulation of Social Media in India for	
	3	Internal Security	
	o	Challenges in Monitoring Social Media	
	٥	Steps Needed	
10) . I	Woney Laundering	
		C	
	o	Meaning of Money Laundering	



٥	Steps taken by the Government			Θ	Non-Traditional Security Challenges (NTS)	
11.	Black Money in India			0	Recommendations for Police Reforms Police we Want in 21st Century	
0	Parallel Economy in India What are the various measures taken by Government to curb Black Money?		1		Various Security Forces and their Mandate	
0	Impact of demonetisation on black money Criticisms			0	Assam Rifles Border Security Force (BSF) Indo-Tibetan Border Police	
12.	Police Reforms in India			0	Central Industrial Security Force (CISF)	
0 0 0	The Organisational Structure Duties and Responsibilities of the Police Centre's Role in Policing Traditional Security Challenges			0 0 0 0	Central Reserve Police Force National Security Guard integrated theatre commands National Maritime Security Coordinator Issues with Paramilitary Forces	
	CONTEN	IPO	RA	R	Y ISSUES	
Ø	Rise of Taliban is internal security challenge for India			Ø	theatre commands National Maritime Security Coordinator	
٥	Non-lapsable Modernisation Fund for Defence and Internal Security (MFDIS)			٥	appointment Assessing India's Cyber Security Infrastructure	
o	Drug trafficking in India				imastructure	

- Covid 19 and Naxalism
- Draft Drone Rules, 2021 released by Ministry of Civil Aviation
- Drone terror attack on Jammu base: dangerous new turning point
- Proposed model of the integrated

Ø	National Maritime Security Coordinator appointment	
٥	Assessing India's Cyber Security Infrastructure	
Θ	Surveillance reform: The need of Hour	
٥	Need to Understand Cyber Threats before fighting them	
ø	Data protection and Aadhaar security	
Θ	Debate on Cyber Security in India	
Θ	Issues related to Border Management	

ETHICS INTEGRITY & APTITUDE

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1. **Ethics Basic Introduction**

- Dimensions of Ethics o
- Essence of Ethics 0
- Approaches of Ethical Study as Indian o Perspective and Western Perspective
- Basic concept of ethics morality and value
- Ethics in public life o
- Ethics in Economic Life o
- Freedom and Discipline o
- **Duties and Rights** o
- Virtue Ethics
- Consequences of Ethics in Human Actions
- Values and Ethics in Government: 0 Legislature, Executive and judiciary
- Contribution of Family in Value o Education
- Contribution of Society in Inculcating Values
- Role of Educational Institutions in 0 Inculcating Values

2. Human Values

- Human value & Socialization o Individual Personality and Value o Values and Skill 0
- Fundamental and Instrumental Values o
- Democratic values 0
- Role of ethical value in governance and o society
- Significance of value in civil services o
- Aesthetic values 0
- Values in work life and professional 0 ethics

3. **Aptitude and foundational** values of civil services

- Essential Aptitude for civil servants o Foundational Values of Civil Services o o Neutrality Anonymity Θ П **Civil Services Accountability** o Integrity o П Humility o Adaptability o Magnanimity o Perseverance П o Impartiality and Non-Partisanship 0 Tolerance and compassion for the weaker section
- Contribution to society o

India & World Thinkers 4.

- Indian Thinkers o
 - 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

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o	Administrative	Thinkers
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- Max Weber
- Elton Mayo
- Peter Drucker
- Chestar 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

5. Indian & World Leaders

Benjamin Franklin o Π Martin Luther King o Dalai Lama o П Nelson Mandela o Mahatma Gandhi П o Siddhartha Gautama o \square Aung San Suu Kyi o Swami Vivekanand 0 Albert Einstein Abraham Lincoln 0 Mother Teresa 0 J L Nehru o

ø	Lee Kuan Yew	
ø	Henry Ford	
ø	Abdul Kalam	
ø	Muhammad Yunus	
o	Wangari Maathai	
ø	Kofi Annan	
ø	Lech Walesa	
ø	Desmond Tutu	
ø	Isaac Newton	
ø	Elie Wiesel	
ø	King Ashoka	
o	Sun Yat Sen	

6. Attitude

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

Political Attitude formation

7. Emotional Intelligence

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

 Importance of Emotional Intelligence at Workplace

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 Importance of Emotional Intelligence in Civil Services

8. 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

9. Probity in Governance

Concept of Public Service \Box o Philosophical basis of Governance o and Probity Information Sharing, Transparency o and Right to Information Flaws in RTI and recommendations for o improvement Importance of vigilant citizens o Information sharing and participation o Π Importance of Code of ethics o Code of Ethics in Professions o Code of Conduct for Ministers; for П Θ Legislators; for Civil Servants; for Regulators and for the Judiciary Components of a Citizen Charter o Steps in formulation of a Citizen's o Charter \Box Concept of Work Culture

0 0 0 0	The Indian Approach to Work Methods of improving Work Culture Quality of Service Delivery Utilisation of Public Funds Problems in Fund Release and					
0						
o	Corruption as a social evil					
0	Probity in public life Corrupt practice among civil servants and official misconduct					
ø	Exposing corruption: Civil Society initiatives and role of Whistleblower Act					
٥	Tackling corruption: Role of government and institutions of governance					
٥	Controlling corruption: Various approaches and efficacy					
10.	Арр	lied Ethics				
٥		nanasia Issue				
		Social and ethical angle				
	E	Different arguments related to Euthanasia				
	▶ (Conclusion				
٥		ogacy				
		Case study				
		ssues				
		thical Issues				
		Concept of ethical surrogacy				
		Conclusion				
٥		cs & Sports				
	►	mportance of sports				
	►E	Ethical Issue: Need for sportsmanship				
	► E	thical Issue: Doping				
	► E	thical Issue: Discrimination and				
	5	Sexual Harassment				
	►E	thical Issue: Sports as a Business				
	▶ 5	Steps needed				
ø	Mec	lia Ethics				
	► F	Role of Media				
	►E	thical Issues faced by Reporters				
	▶ 1	Trial by Media				
	▶ 1	Media Prejudice				

- Ethical Dilemma faced by Photo Journalists
- Digital Media Ethics
- ► Paid News

٥	Business Ethics		▶ Issue of keeping animals as pets
	 Principles of Business Ethics 		► Issue of Cruelty against animals
	 Dimensions related to Business Ethics in Organisation 		► Conclusion
	 Business Ethics and Corporate Governance 		 o Food Adulteration and Ethics → Ethical dimension
	 Journey from Philanthropy to Corporate Social Responsibility 		 Ethical issue related to food additive Abortion: Ethical or Unethical
	 Issues related to Corporate Social Responsibility 		 ► Law of abortion in India ► Recent Supreme Court verdict
	 Issues in implementation of Business Ethics 		 Ethical Issue: Health of Women vs. fetus
Ø	 Ethics Related to Economic Sanctions Why Economic Sanctions placed? Ethics in Economic Sanctions 		 Justification for abortion Argument against abortion Abortion and women rights
	Conclusion		Abortion and father rights
٥	Refugees & Ethics		
	 Why Migration occurs? 		
	Case study of Syria		Role of khap pachayat
	 Dilemmas related to Refugee 		Marital Rape
	crisis	_	Why Marital Rape should not be
	Steps needed		criminalized?
Ø	Ethical Dilemmas of Globalization What is Globalisation 		► Why Marital Rape should be
	 Free trade in Globalised world 		criminalized?
			► What are the hurdles?
	 Issues with Newly developed trade patterns 		• Ethical Issue Involved in Child Labour
	 Criticism against global regime 		► Rights of children
	► Way forward		► Child labour and company
٥	Ethics of War		► Solution
	 Ethics and War theories 		► Role of consumer
	► Evils of war		• Ethical Issue Involved in Treating
٥	Environmental Ethics		
	 Linkage between Ethics and 		
	Environment	_	► Negative implications
	 Theories related to Environmental ethics 		 e Ethics and Old Age b Ethical issues
	 Role of individual 		
ø	Ethical Issues in Biotechnology		
0	 Issues related to Stem Cell 		► Importance of autonomy
	 Issues related to stern cerr Issues related to cloning 		 Ethics in Public and Private Relationships
	 Issues related to designer babies 		 Ethical values in Private relationships
o	Animal Ethics		Ethical principles in Public
9	 Introduction 	-	relationships
	 Issues of conducting research on animals 		 Linkage between Private relationships and Public relationships



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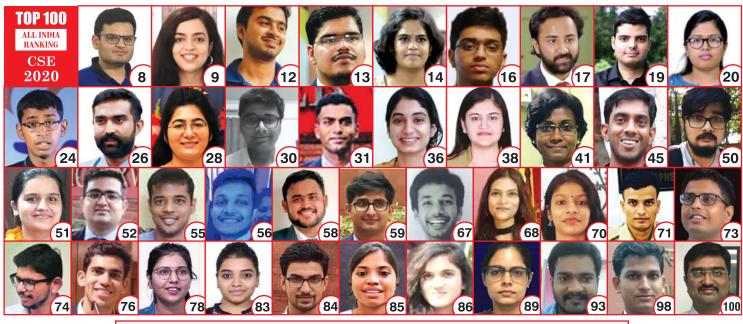
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TEST SERIES

- Prelims Test Series
- **GS** Mains Test Series
- **Essay Test Series**
- Ethics Test Series
- Optional Test Series
 - Political Science
 - Geography
 - History
 - Public Administration
 - Anthropology







SUCCESS IS A PRACTICE WE DO!

