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A Shankar IAS Academy Initiative

DAILY FAQ SUBJECTWISE QUIZ



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DAILY STATIC QUIZ SCHEDULE

GEOGRAPHY - GEOMORPHOLOGY

DAY	SYLLABUS	TOPICS	SOURCES
1.	Solar System & Earth	Planets, stars, satellites, etc. Eclipses - Solar, Lunar	6th NCERT – Chapter I 6th NCERT – Chapter II & III 7th NCERT – Chapter II 11 th NCERT (Fundamentals of Physical geography) – Chapter II & III
		Motions of the Earth - Rotation, Revolution and their effects. Inclination of the Earth's Axis and its effects. Latitude and Longitude Local and Standard Time and the International Date Line, Calendar.	
2.	Interior of the Earth & Rocks	Sources – Direct & Indirect - (Earth Quake Waves, Volcanoes, etc.) Crust, Mantle & Core Rocks & landforms Rocks & Soils Types of Rocks, Rock Cycle	11 th NCERT (Fundamentals of physical geography) – Chapter V
		Waves – P, S, Body and Surface waves. Shadow Zone Types of Earthquakes and Effects Volcano Types & Landforms	11 th NCERT (Fundamentals of physical geography) – Chap III, VI, VII 9 th NCERT – Chapter II
3.	Earthquakes Volcano		



4.	Distribution of Continents & Oceans Landforms in India and across the world	Theories and evidences. Forces of drifting Plate tectonics Plate boundaries – Divergent, Convergent and Transform. Rivers and lakes. Mountain and Peaks. Plateaus, etc.		9 th NCERT – Chapter II & III 11 th NCERT (Fundamentals of physical geography) – Chapter IV 11 th NCERT (India physical environment) – Chapter II & III Map reading – Refer Atlas.
5.	Geomorphic Processes	Endogenic Process	Diastrophism & Volcanism	11 th NCERT (Fundamentals of physical geography) – Chapter VI & VII 11 th NCERT (Fundamentals of physical geography) – Chapter VII
		Exogenic Forces	Weathering, Mass movements Erosio, Transportation & Deposition	
	Landforms and their Evolution	Erosional landforms Depositional landforms	Agents and their Impacts - Wind, Running Water, Ground Water, Glaciers, Waves & Currents	

363 Ranks in CSE 2020.



HISTORY - ANCIENT INDIA

DAY	SYLLABUS	TOPICS	SOURCES
6.	Stone Age	Paleolithic, Mesolithic, Neolithic - Occupation, Tools, Pottery, Settlements, Lifestyle, Prehistoric Art (Cave paintings). Chalcolithic - Early towns and settlements, Farming Cultures (Ahar, Malwa, Jorweetc) , Pottery (Ochre colored), Dwelling and Burial practices	Primary - Old NCERT Class 11 Chapter 5,6 Themes in Indian History Part I Secondary - Tamil Nadu History book Class 11
7.	Indus Valley Civilization- Bronze Age	Origin, Geographical Extent, Cities and towns, Urban planning, Important structures, Agriculture, Trade and economy, Political organisation, Religious practices- Nature and animal worship , Crafts and Pottery, Seals , Bronze and terracotta figurines, Decline and its causes.	Primary - Old NCERT Class 11 Chapter 7 Themes in Indian History Part I Secondary - Tamil Nadu History book Class 11
8.	Early Vedic Age (1500- 900 BCE)	Advent of Aryans, Family and kinship - Tribal , Rig Veda, Social Practices, Tribal Polity and administration. Occupation and economy, Religion and Vedic Gods.	Primary - Old NCERT Class 11 Chapter 8 Themes in Indian History Part I Secondary - Tamil Nadu History book Class 11
	Later Vedic Age (900 - 600 BCE)	Developments in Polity, Economy, Social Order (Rise of Gotra, Ashramas, Caste , Differences between Rig & Later Vedic society, Use of Iron-PGW, Vedas & Upanishads, Heterodox Philosophy	Primary - Old NCERT Class 11 Themes in Indian History Part I Secondary - Tamil Nadu History book Class 11 Nitin Singhania book Chapter 14



9.	Mahajanapadas (600-300 BCE)	Rise of State polity, 2nd Urbanisation- Rise of new cities, Magadhan Empire - Administration & Economy, Republican States, Society and Religion, Iranian & Macedonian invasion.	Primary - Old NCERT Class 11 Chapter 10, 11, 12, 13 Themes in Indian History Part I - Nitin Singhanian Book Secondary - Tamil Nadu History book Class 11
10.	Buddhism & Jainism	Jainism and Buddhism- Birth of Mahavira / Buddha, Origin and Spread, Doctrines and Principles, Monastic establishments (Basadis/Viharas), Jain & Buddhist Councils, Art and Architecture, Literature.	
11.	Mauryan Empire	Rise of the Mauryan dynasty, Chandragupta Maurya, Administration, bureaucracy, taxation and polity, Chanakya's Arthashastra. Ashoka - Inscriptions (minor and major rock edicts), Art and Architecture, Ashoka's Dhamma and patronage of Buddhism.	Primary - Old NCERT Class 11 Chapter 14, 15 Themes in Indian History Part I Secondary - Tamil Nadu History book Class 11
12.	Post Mauryan Age	Sungas and Kanwas, Central Asian Invasions - Indo Greeks, Shakas, Parthians, Kushans. Their Impact- Money Economy, expansion in trade, silk route. Influx of foreign elements in polity, army, crafts. Religious Developments- Mahayana Buddhism, Gandhara and Mathura school of art, Science & Technology Literature. Satavahanas- Polity & administration, Economy, Social Organisation, Religious Patronage, Art and Architecture.	Primary - Old NCERT Class 11 Chapter 16, 17, 19 Themes in Indian History Part I Secondary - Tamil Nadu History Book XI



POLITY - CONSTITUTIONAL FRAMEWORK

DAY	SYLLABUS	TOPICS	REFERENCE
13.	Historical Background Making of constitution	Features of each act from 1773 to 1947	NCERT (NEW) Class 11 political theory -1 chapters(all) Class 11 Indian Constitution at work chapters 1, 2, 9 and 10. Laxmikanth's Indian polity Chapters 1 to 11 Class 6 social & political life-1 chapters 1 and 2 Class 7 social & political life-2 chapters 1 and 10 Class 8 social and political life-3 chapter 1 Class 9 democratic politics-1 chapters 1,2 and 3. Class 10 Democratic politics-2 chapters 3, 7 and 8
14.	Salient features	Philosophical basis for each feature such as democracy, liberty.	
	Preamble	Content, objective and its amendment	
15.	Union and its territory	Procedure for creation of new state, UT.	
	Citizenship	Features like single citizenship and link with topics like qualification to become President of India. Focus on NRC .	
16.	Fundamental rights(FR)	Writs, Constitutional Remedies, Rights outside part 3, Relate each Fundamental Right in Current affairs like privacy, right to marry.	



17.	DPSP and Fundamental Duties	Purpose, list, important amendment, non-justiciability, comparison of Preamble vs FR vs DPSP vs FD
18.	Amendment & Basic structure	Types, Which type of amendment is required for amending certain part, article or schedule. Important amendments : 1st, 25th, 39th, 42nd, 44th, 69th, 73rd, 74th, 77th, 81st, 85th, 91st to recent amendments. Origin, list & purpose, constitutionality

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363
Out of 761,
48% Selections
in UPSC CSE
2020.



215 First
highest mark
across India
in UPSC
Interview 2020
(2 Candidates).



70:30
(Male:Female)
Gender
wise break up
of selected
candidates.



60 Candidates
in TOP 100 ranks
of which
25
are females.

ADMISSIONS OPEN

UPSC CSE 2021

**GENERAL STUDIES
PRELIMS CUM MAIN
CLASS STARTS ON**

14.10.2021
8.00am to 10.30am



ECONOMICS - ECONOMIC AND SOCIAL DEVELOPMENT-SUSTAINABLE DEVELOPMENT

DAY	SYLLABUS	TOPICS	REFERENCE BOOKS
19.	Planning	Need and role of government in Planning Review and achievements of 5 year Plans NITI AAYOG	11th NCERT chapter 2, chapter 3
20.	Agriculture	Land Reforms Green Revolution Food Security	Primary -Shankar IAS academy Economics part 2 Chapter 2
	Agriculture	Subsidies -MSP,FRP WTO Agricultural Marketing- NAM NABARD	Primary -Shankar IAS academy Economics part 2 Chapter 2
21.	Industry Service	Industrial Policies from 1948 PSUs - Maharatnas, Miniratnas, Navaratnas Disinvestments- National Investment Fund MSMEs Policies- NIMZ, Make in India, IIP Composition, growth	Primary -Shankar IAS academy Economics Part 2 chapter 3 Primary -Shankar IAS academy Economics part 2 Chapter 4



22.	National Income	Circular flow of income Methods: income, product, expenditure National Income Accounting GDP, GNP, NDP, NNP (@Factor Costs, @ Market Prices), NI, PCI,PI ICOR, GDP Deflator	Primary - Shankar IAS academy Economics part 1 chapter 1 Secondary – Sankarganesh Chapter 2
23.	Growth & Development	Reports and Indices HDI, GII, MPI etc	Primary -Shankar IAS academy Economics Part 1 Chapter 2 Economic Survey
24.	Budget	Types - gender based, zero based, incremental Receipts - Tax (direct and indirect- GST), Non Tax Receipts - Debt and Non debt Capital Expenditure	Primary -Shankar IAS academy Economics Part1 chapter 3 Secondary - Sankarganesh Chapter 5 Economic Survey
25.	Public Debt	Internal, external and other liabilities	
	Deficits	Fiscal, budget, Revenue, Primary	
	Business Cycle	Recession, depression, recovery, boom	



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26.	FRBM	Recommendations
	Finance commission	13th and 14th Recommendations
	Fiscal Policy	Expansionary and contractionary



UPSC

PRELIMINARY BATCH

Date - 14th Nov 2021
Timing - 08.00am to 10.30am

363 Ranks in CSE 2020.

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ENVIRONMENT - ENVIRONMENTAL ECOLOGY

DAY	SYLLABUS	TOPICS	SOURCES
27.	Ecology	Ecology definition Environment definition Environment components (biotic and abiotic)	Shankar IAS Environment Chapter 1
	Ecosystem	Ecosystem definition Functions of ecosystem, Energy flow Food Web Ecological pyramid-pyramid of biomass, numbers, Ecotone, Niche	Shankar IAS Environment Chapter 1
28.	Ecosystem	Bioaccumulation, Bio magnification & Bioremediation Biopiracy, Bioleaching & Bio-terrorism Carbon footprint, Ecological footprint, Eutrophication, Algal blooms-red tide & Biological oxygen demand	Shankar IAS Environment Chapter 2,5, 12th NCERT Biology Last 4 Chapters
29.	Ecosystem	Ecological succession & Biotic interaction-mutualism, communalism,	
30.	Ecosystem	Bio-geochemical cycle Hydrological cycle Carbon cycle Nitrogen cycle Phosphorus cycle Sulphur cycle	



31.	Aquatic ecosystems	Lakes-ecology, characteristics Estuaries Mangroves-characteristics, root modification Coral reefs-types, threat Wetlands-types, national wetland conservation program, Ramsar sites, montreux record	Shankar IAS Environment Chapter 4
32.	Terrestrial ecosystems	Forest ecosystem-types of forest Desert ecosystem Grasslands ecosystem Deforestation-causes Desertification-causes	Shankar IAS Environment Chapter 3

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GENERAL SCIENCE

DAY	TOPICS	SOURCES
33.	General Science I	NCERTs VI-XII
34.	General Science II	
35.	General Science III	
36.	General Science IV	
37.	General Science V	

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GEOGRAPHY - CLIMATOLOGY

DAY	SYLLABUS	TOPICS	SOURCES
38.	Composition & Structure of atmosphere	Gases, Water Vapour, Dust Particles, etc. Exosphere, Thermosphere, Mesosphere, Stratosphere, Troposphere, Altitude vs Temperature	7 th NCERT – Chapter IV 9 th NCERT – Chapter IV 11 th NCERT (Fundamentals of Physical geography) 11 th NCERT (India physical environment) – Chapter IV
	Solar Radiation, Heat Balance and Temperature	Insolation, Aphelion and Perihelion Variability of Insolation at the surface of the Earth Rotation on Axis, Angle of Inclination of sun, Length of the day Transparency of Atmosphere, Configuration of land in terms of its aspect.	11 th NCERT (Fundamentals of physical geography) – Chapter IX
39.	Heat Balance	Heating and cooling of atmosphere Conduction, Convection, Advection, Radiation and heat budget Albedo, Shortwave & Long wave Earth Radiation Factors controlling Temperature distribution Inversion of Temperature, Adiabatic Lapse Rate and Latent Heat of Condensation	11 th NCERT (Fundamentals of physical geography) – Chapter IX



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40.	Atmospheric Circulation and Weather Systems	Atmospheric Pressure Belts and Wind Systems Atmospheric Pressure Vertical variation of pressure Horizontal distribution of pressure World Distribution of Sea Level Pressure	9 th NCERT – Chapter IV 11 th NCERT (Fundamentals of physical geography) – Chapter X
41.	General Circulation of the Atmosphere	Factors affecting the velocity & direction of the wind. Pressure Gradient Force, Frictional Force, Coriolis Force, Pressure & Wind (Cyclone & Anticyclone) Latitudinal Variation, Pressure Belts, Migration of Belts	

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ONLINE & OFFLINE MODE AVAILABLE





HISTORY - MEDIEVAL INDIA

DAY	SYLLABUS	TOPICS	SOURCES
42.	Chola Empire (9th- 12th century)	Rise of Cholas, Administration and taxation, Territorial Expansion, Society & Culture. Chola Art & Architecture.	Primary - Old NCERT Class 11 Chapter 3, Themes in Indian History Part II Secondary - Tamil Nadu History book Class 11
	Ghaznavid & Turkish Invasions (1000-1200 CE)	Coming of Ghaznavids, Status of Rajput States & reasons for defeat, Ghurid invasion . Alberuni's Kitab-ul-Hind.	Primary - Old NCERT Class 11 Chapter 5 Themes in Indian History Part II Secondary - Tamil Nadu History book Class 11
43.	Delhi Sultanate (1200-1400 CE)	Nature of the State, Administration of Delhi Sultanate, State Departments and various posts, Military reforms. Land revenue and taxation, local and village administration, Cities and towns. Trade and crafts, Agriculture, export & imports, Economic and social life. Religion & customs	Primary - Old NCERT Class 11 Chapter 6,7,8 Themes in Indian History Part II Secondary - Tamil Nadu History book Class 11



44.	Delhi Sultanate (1200-1400 CE)	Art and Architecture of Delhi Sultanate, Construction & rise of new Cities, Accounts of foreign travellers like Ibn Batutta, Court poets and Historians like Amir Khusrau, Barauni etc.	
		The Mamluks (1206-1290) – Qutb-ud-din Aibak, Iltutmish – Chagalani system, Raziya Sultana, Balban- Policies and administration, Mongol menace, Khaljis (1290-1320), The Tughlaqs(1320-1414), The Sayyid dynasty (1414- 1451), The Lodis(1451-1526).	
45.	Vijayanagara & Bahmini Kingdom	Rise of Vijayanagara State, Harihara and Bukkaraya, Political Organisation - Nayaka System, Social life and Economy, Krishna Devaraya- administration and foreign policy,	Primary - Old NCERT Class 11 Chapter 9 Themes in Indian History Part II Secondary - Tamil Nadu History book Class 11
46.	Religious and Cultural Developments in India(1200-1500 CE)	Rise of concept of Bhakti, Vaishnavites and Saiviites in South (Alwars and Nayanmars), Shankaracharya and Ramanuja, Bhakthi movements in North India and Maharashtra . Saguna and Nirguna schools, Bhakthi Saints and Poets, Bhakti Literature, Impact on Social life. Sufi movements- Basic concept, 12 orders or Silsilahs, Sufi saints- Nizamuddin Auliya, Moinuddin Chisti, Baba Farid. Sufi impact on Indian arts, culture and society.	Primary - Old NCERT Class 11 Chapter 11 Themes in Indian History Part II Secondary - Tamil Nadu History book Class 11



47.	Mughal Empire	<p>1526-1555 Babar(1526-1530), First Battle of Panipat, Battle of Kanwa , Babar Nama. Humayun (1530- 1535, 1555-56) Suri dynasty (1535- 1555) – SherShah’s reign, Administration and land revenue policy , Law & Order, Economic Reforms.</p> <p>1556-1707 Akbar’s Reign (1556-1605) - Second battle of Panipat, Early expansion under Bairam khan, Administration and Polity, Mughal army, Land revenue system of TodarMal, Mansabdari System and political organisation, Akbar’s Economic and Social Conditions- City and village life, Zamindars and peasantry, Religious ideas, status of women.</p>	<p>Primary - Old NCERT Class 11 Chapter 12,13,14, 15,16,17,18,19</p> <p>Themes in Indian History Part II</p> <p>Secondary - Tamil Nadu History book Class 11</p>
48.		<p>Arabic and Persian Literature, Account of court Historians and Poets, Foreign accounts of travellers on Mughal society and polity.</p> <p>Mughal Arts- Miniature Painting, Mughal Architecture and Monuments. Traditional crafts, Export and imports, Science and Technology. Disintegration of Mughal Empire (1707-1856)</p> <p>Deccan Conquests of Aurangazeb- Impact. Causes of disintegration.</p>	
49.	Rise of Marathas	<p>Maratha expansion under Shivaji, Maratha army and administration, Chauth and Sardeshmukhi, Conflict with Mughals and other Deccan powers.</p>	<p>Primary - Old NCERT Class 11 Chapter 19</p> <p>Themes in Indian History Part II</p> <p>Secondary - Tamil Nadu History book Class 11</p>



POLITY - SYSTEM OF GOVERNMENT & EXECUTIVE

DAY	SYLLABUS	TOPICS	SOURCES
50.	Features	Features of parliamentary government, Federal and unitary features	<p>Primary source</p> <p>Class 11 Indian Constitution at work chapter 7</p> <p>Laxmikanth's Indian polity Chapters 12-16</p> <p>Current affairs.</p> <p>Secondary source</p> <p>Class 10 Democratic politics-2 chapters 1 and 2</p>
51.	Centre state relations	Trends in centre state relations –frequently in news like GST, president rule and similar related issues. Punchhi commission recommendations & Sarkaria commission recommendations.NITI AAYOG'S role in centre state relations.	
	Inter-state relations	River water sharing disputes, Inter-state and Zonal councils	
52.	Emergency provisions	President rule, Financial emergency	
53.	Executive	President & Vice President	
		PM & council of ministers, Attorney general of India & Cabinet secretary Governor , CM, Advocate general of state Chief secretary	



54.	Parliament	Speaker, Chairman, joint sitting, money bill, budget, comparison of Rajya Sabha Vs Lok Sabha, parliamentary committees, devices in parliamentary proceedings like censure motion, privileges and general rules of business. Acts/laws in current affairs such as labour laws, codes.	Primary source Class 11 Indian Constitution at work Chapter 5 Laxmikanth's Indian polity Chapters 22-24,29. PRS website
55.	State legislature	Legislative council vs assembly, Bills referred to the President and general rules of business.	Secondary source Class 8 social and political life-3 chapters 3 and
56.	Supreme court & High Court	Independence Jurisdiction, Judicial review, Enforcement of FR.	Primary source Class 11 Indian Constitution at work chapter 6 Laxmikanth's Indian polity Chapters 25, 30 and 31.
57.	Tribunals, NALSA, Gram nyayalaya act etc	Recently in news like NGT, Administrative tribunal. Functions and powers	Secondary source Class 8 social and political life-3 Chapters 5 and 6

UPSC
PRELIMINARY BATCH

Date - 14th Nov 2021
Timing - 08.00am to 10.30am



ECONOMICS - MONEY, INFLATION

DAY	SYLLABUS	TOPICS	SOURCES
58.	Money	Primary and secondary functions of money, Monetary and Liquidity Aggregates, Role of RBI and Government	Primary source Class 11 Indian Constitution at work chapter 7
59.	Inflation	Demand Pull, Cost Push, Structural, Creeping, Walking, Running, Galloping; WPI, CPI - Rural, Urban, Industrial workers, on different sectors, professionals and society Taxation and Expenditure Regulation, Quantitative- bank Rate, OMO, CRR, SLR, Repo, Reverse Repo, and Qualitative	Laxmikanth's Indian polity Chapters 12-16 and Current affairs. Secondary source Class 10 Democratic politics-2 chapters 1 and 2
	External Sector	Current and Capital Account, Sector wise growth rates, Sector wise growth rates, CAD and Fiscal Deficits, Definition, Routes, FDI Caps, Fixed, Adjustable peg, Floating Depreciation, Appreciation, Revaluation, Devaluation. REER, NER, RER, PPP, Current and Capital Account	Primary - Shankar IAS academy Economics Part 1 Chapter 6 Secondary - Sankarganesh Chapter 10. Economic Survey
60.	Financial Inclusion	Evolution of Banking, Structure RBI, Reforms, NPA, Basel Norms, Banking Ombudsman Scheme, NBFC etc	Primary - Shankar IAS academy Economics Part 1 Chapter 7 Secondary - Sankarganesh Chapter 6



61.	Financial Markets	Money market, Capital market, SEBI etc	Primary - Shankar IAS academy Economics Part 1 Chapter 8 Secondary - Sankarganesh Chapter 7
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ENVIRONMENT - BIODIVERSITY & POLLUTION

DAY	SYLLABUS	TOPICS	SOURCES
62.	Bio - Diversity	Biodiversity-term, Levels of biodiversity-Genetic diversity, Species diversity Ecosystem/community diversity, Species richness-alpha, beta, gamma Species evenness Flora & Fauna Diversity, Plant 7 Animal Adaptations	Shankar IAS Environment Chapter 8
63.	Modes of conservation	Ex-situ conservation-zoological parks, seed banks, etc In-situ conservation-wildlife sanctuary, national park, etc	Shankar IAS Environment Chapter 7
64.	National & Global Initiatives	Wildlife sanctuary and National Parks, Conservation reserves and community reserves Coastal protected areas, Sacred groves of India, Man and biosphere Biosphere reserves, World network of biosphere reserves Biodiversity hotspots, Biodiversity hope spots, World Heritage sites IUCN-(red data book) endangered, critically endangered, etc	Shankar IAS Environment Chapter 12



65.	Pollution	<p>Pollutants-classifications, causes, sources Air pollution-major pollutants, Smog-formation, effects Indoor Air pollution,Fly ash-composition, utilisation</p> <p>National Air quality monitoring programme National ambient air quality standards (NAAQS) Water pollution-sources, effects, control measures</p>	Shankar IAS Environment Chapter 5,Environmental Ministry
66.	Pollution	<p>Soil pollution-sources, causes, types, effects, control measures</p> <p>Noise pollution-impacts, control measures</p> <p>Radio-active pollution-sources, types, effects, control measures E-waste management, Solid waste managementEnvironmental impact assessment</p>	Shankar IAS Environment Chapter 6
67.	Climate Change	<p>Global warming, Green house effect, Green house gases Global warming potential, Global emissions Acid rain, Ocean acidification, Ozone depletion</p>	Shankar IAS Environment Chapter 14 Shankar IAS Environment Chapter 15,16
68.	Mitigation strategies	<p>Carbon sequestration, Carbon sink, Carbon credit, Carbon offsetting, Carbon tax Geo-engineering Green building</p> <p>Green rating for integrated habitat assessment (GRIHA)</p> <p>UNFCCC, Agenda 21, REDD and REDD+ IPCC Green climate fund</p> <p>Global environment facility</p>	Shankar IAS Environment Chapter 18 Shankar IAS Environment Chapter 19 Shankar IAS Environment Chapter 20



SCIENCE & TECHNOLOGY

DAY	SYLLABUS	TOPICS	SOURCES
69.	Space Technology	Space Terms – Kuiper belt, Goldilocks Zone, Exo planet, Tidal locking, Meteors, Asteroid etc., Space Phenomenon- Supernova explosion, neutrino, Gravitational Waves, Red Shift phenomenon etc., Missiles Technology	
70.	Defence	Important Missiles, Tech Components(SPI), Vehicles	
71.	Electronics and Green Tech	Solar Energy -Photo Voltaic cell & Solar thermal cells, Wind energy, B.S.Norms, E.Vehicles, Coal-Formation, it's by product E.g. Fly ash, Pollution from coal(NCERT) Bio Fuels, Fuel Cells Hydrogen Cells Microbial Cells Bio Toilet etc	
72.	Information Technology + Robotics	Networks, E-governance, Emerging trends-IoT , Big Data, A.I,C.P.S, Block chain. V.Reality, A. Reality, Malwares.,	
73.	Nuclear & Particle Science	Types of Nuclear reactors and its fuel International Thermonuclear Experiment Reactor (ITER) +3 Stages, Nuclear Power Programming etc	



74.	Bio Technology + IPR	<p>Genetic Material - DNA & RNA and its differences</p> <p>Types of RNA - Messenger RNA (mRNA), Transfer RNA (tRNA), Ribosome translation RNA (rRNA) etc</p> <p>DNA replication – Transcription & Translation</p> <p>Genetic Engineering – Applications, Tools (Recombinant DNA) & its methods (Gene Silencing, Gene Knockdown, Grafting etc...)</p> <p>Stem Cells – Induced pluripotent cells, Somatic Cell Nuclear Transfer Technology Tissue Culture Innovation in Medicine</p> <p>technology – CRISPR, bacteriophage etc.,</p>	
75.	Health	<p>Human Immune System, Diseases - its Source (Bacteria or Virus or fungi) , Mode of Transmission, Anti-Microbial resistance or Anti Biotic Resistance</p>	

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ART & CULTURE

DAY	SYLLABUS	TOPICS	SOURCES
76.	Ancient India	IVC- Various sites associated with Architecture. Their significance and location. Sculptures, figurines & seals. Mauryan Architecture- Ashokan Pillars, Stupas, Cave Architecture- Chaitiyas & Viharas, Sculptures. Post Mauryan – Features of three schools of art- Gandhara, Mathura, Amaravati. Rock cut caves. Gupta period- Cave Architecture- Ajanta, Ellora, Bagh, Nasik etc Temple Architecture – Nagara Style.	Ancient & Medieval Primary - Old NCERT Class 11
77.	South India	Temple Architecture in South India -Pallava style, Dravidian Style- Chola temples, Vesara Style, Nayaka school, Hoysala Style, Pala school of temples.	Nitin Singhania Book Chapter 1 SIA Book The Hindu - MetroPlus
78.	Medieval India	Medieval / Islamic Architecture- Delhi Sultanate- Different characteristics and introduction of new features of various dynasties- The Mamluks, Khiljis, Lodhis. Mughal Architecture – Features and important structures. Provincial Styles- Bengal, Malwa, Rajputana.	



79.	Indian Paintings	Prehistoric Paintings, Cave paintings in Paleolithic, Mesolithic, Neolithic, Chalcolithic periods. Location, colors, themes. Mural Paintings- Ajanta, Ellora, Sittanavasal etc. Miniature Different Schools- Rajasthani, Pahari, Kishangarh, Bundi, Kangra, Basholi, Tanjore. Folk Paintings - Madhubani, Pattachitra, Kalighat, Pattua, Kalamkari, Warli etc.	Ancient & Medieval Primary - Old NCERT Class 11 Nitin Singhania Book Chapter 2 SIA Book The Hindu – Metro Plus
80.	Indian Music	Classical Music- Hindustani and Carnatic Forms- Their features and styles. Folk Music- Pandwani, Lavani, Dandiya, Wanawan, Khonjom Parwa etc.	Ancient & Medieval Primary - Old NCERT Class 11
81.	Dance Forms	8 Classical dance forms- Bharatanatyam, Kuchipudi, Mohiniyattam, Odissi, Kathakali, Sattriya, Manipuri, Kathak. Folk dances- Chauu, Raslila, Garba, Dandiya, Ghoomar, Padayani etc	Nitin Singhania Book Chapter 5,6 Nitin Singhania Book The Hindu - Friday Review
82.	Indian Theatre	Ritual theatres of different traditions like Ankianat, Ramlila. Entertainment theatre forms- Tamasha, Nautanki, Swang etc.	Ancient & Medieval Primary - Old NCERT Class 11 Nitin Singhania Book Chapter 7 SIA Book
83.	Indian Puppetry	String Puppets- Kathputli, Bommalatam. Shadow Puppets- RavanChayya, Togalu Gombayetta. Rod puppets- Putul Nautch, Yampuri.	Nitin Singhania Book Chapter 8 SIA Book



84.	Fairs & Festivals	Important Tribal and Northeast festivals. Ex- Losar, Wangala, Bihu.	Nitin Singhania Book Chapter 18 SIA Book
85.	Indian Literature	<p>Ancient India – Vedas, Brahmanas, Aranyakas, Upanishads, Ramayana, Mahabharata, Puranas.</p> <p>Sanskrit Literature - Prose, Drama & Poetry - Works of court poets like Kalidasa, Sudraka, Bhasa of Ancient , Medival India. Pali & Prakrit Literature Jain texts- Angas, Upangas. Buddhist – Canonical (Tripitakas) and non-canonical (Jatakas).</p> <p>Persian/ Arabic Literature - Works of court historians of Delhi Sultanate, Mughals, Bahminis. Ex-Ain-i-Akbari by Abul Fazl, Tarikh-i-Firozshahi by Barauni.</p>	<p>Ancient & Medieval Primary - Old NCERT Class 11</p> <p>Nitin Singhania Book Chapter 13 SIA Book</p>

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GEOGRAPHY - OCEANOGRAPHY

DAY	SYLLABUS	TOPICS	SOURCES
86.	Pattern of Planetary Winds Circulation	Distribution of continents & Oceans. Rotation of the Earth Geostrophic Wind, Jet Streams & Rossby Waves Major Jet Streams: Subtropical Jet Stream & Polar Jet Stream Air Mass and Air masses based on Source Regions Simplified Global Circulation – Hadley Cell, Ferrell Cell. Seasonal Wind, Local Wind, Land and Sea Breezes, Mountain and Valley winds, AIR MASS – fronts, Extra Tropical Cyclone, Thunderstorms, Tornadoes, etc.	7th NCERT – Chapter IV 11th NCERT (Fundamentals of physical geography) – Chapter X & XI GC Leong – Chapter XIII & XIV
	Water in the Atmosphere	Water Vapour, Precipitation, Humidity – Absolute and Relative. Saturation – Dew Point, Evaporation and, Condensation. Dew, Frost, Fog & Mist, etc. Clouds, Types – Cirrus Cumulus, Stratus Nimbus, High – Cirrus Cirrostratus Cirrocumulus Middle – Altostratus Altocumulus Low – Stratocumulus, imbostratus Vertical Development – Cumulus and Cumulonimbus	11th NCERT (Fundamentals of physical geography) – Chapter XI 11th NCERT (Fundamentals of physical geography) – Chapter XI GC Leong – Chapter XIII



87.	World Climate	<p>Hot, Wet Equatorial Climate</p> <p>Tropical Monsoon and Tropical Marine Climates Savanna or Sudan Climate</p> <p>Hot Desert and Mid-Latitude Desert Climates</p> <p>Warm Temperate Western Margin (Mediterranean) Climate</p> <p>Temperate Continental (Steppe) Climate</p> <p>Warm Temperate Eastern Margin (China Type) Climate Cool</p> <p>Temperate Western Margin (British Type) Climate Cool Temperate Continental (Siberian) Climate</p> <p>Cool Temperate Eastern Margin (Laurentian) Climate Arctic or Polar Climate</p>	GC Leong – Chapter XV to XXV
88.	Indian Monsoon	Distribution, Impact of ENSO and LA Nina, IOD, Polar vortex, etc.	IMD and earth sciences ministry websites.



HISTORY - MODERN INDIA

DAY	SYLLABUS	TOPICS	SOURCES
89.	Before Revolt	Advent of Europeans Portuguese, French, Dutch, English and Danish Anglo-French wars and carnatic wars Weak Mughal Rulers post Aurangazeb Rise of Regional Kingdoms- Bengal, Hyderabad, Awadh Conquest and Establishment of British Empire	Old NCERT XII Chapter -1,2,3,4,5,6 Spectrum- Chapter -3,4,5 Themes in Indian History Part III
90.	Before Revolt	Battle of Plassey, Buxar Mysore , Maratha, Sikh, Afghan wars Innovative Administrative polices Ringfence, subsidiary alliance and doctrine of lapse	
91.	Revolt of 1857	Causes, spread , nature and consequences Important personalities and area of revolt	Old NCERT XII Chapter 8 Spectrum- Chapter 7 Themes in Indian History Part III
92.	Socio Religious Movements	Important associations and leader	Old NCERT XII Chapter 6,7,13 , Spectrum- Chapter 8 & 9 Themes in Indian History Part III



93.	Modern Nationalism	Pre-INC organizations, Newspapers Factors for growth of Modern Nationalism	Old NCERT XII Chapter 12 Spectrum- Chapter 10 Themes in Indian History Part III
94.	INC- Moderate Phase	Foundation of INC Approach, Ideology, Important leaders and contributions- economic criticism of British Rule	Old NCERT XII Chapter 12,14 Spectrum- Chapter 11 Themes in Indian History Part III
95.	Extremist Phase (1905-1918)	Rise of extremism, Partition of Bengal Anti- Partition, Swadeshi Movement Surat Split Minto - Morley reforms	Old NCERT XII Chapter 14 Spectrum- Chapter 12 & 13 Themes in Indian History Part III
96.	Revolutionary Activism (1907-1917) World events and Nationalist response	Bengal, Maharastra, Punjab, Abroad Imp leaders and activities World War I and response Home Rule Movement Lucknow Pact Russian Revolution and impact Montague Chelmsford Reforms	Old NCERT XII Chapter 15 Spectrum- Chapter 14, 15 Themes in Indian History Part III
97.	Emergence of Gandhi & NCM	Experience in South Africa Emergence of Satyagraha Technique Experiments in India Champaran, Kheda and Ahmedabad, Rowlatt Act, Jallianwala bagh massacre Khilafat movement NCM, Participation of masses and withdrawal	Old NCERT XII Chapter 15 Spectrum- Chapter 16, 15 Themes in Indian History Part III



98.	Phase in between NCM and CDM	Swarajists and No-changers Emergence of socialist, Marxist ideas Peasant , Trade and caste movements Revolutionary Activity- II	Old NCERT XII Chapter 15 Spectrum- Chapter 17 Themes in Indian History Part III
99.	Civil Disobedience Movement	Run up to CDM - Simon Commission - Nehru Report and response - Lahore session and Poorna Swaraj Spread of CDM Govt Response- Gandhi- Irwin Pact Round Table Conferences (RTC) Communal Award- Poona Pact Gandhi Harijan Campaign	Old NCERT XII Chapter 15 Spectrum- Chapter 19 Themes in Indian History Part III
100.	Post CDM	GOI Act 1935 Council Entry and Congress Performance Congress Rule in Provinces	Old NCERT XII Chapter 15 Spectrum- Chapter 20, 21 Themes in Indian History Part III



101.	1939- 1947	Nationalist Response to WW II Bose- Gandhi- Nehru Ideologies August offer, Individual Satyagraha, Cripps Mission Quit India Movement- Resolution and Mass participation Wavell Plan INA (1st phase and Bose arrival), trials Elections- Congress and League's performance Cabinet Mission Plan Atlee Statement, Mountbatten plan India Independence Act and Partition India - Post Independence	Old NCERT XII Chapter 15 Spectrum- Chapter 22, 23, 24, 25 Themes in Indian History Part III
102.	India - Post Independence	Making of Indian Constituion, Partition, Unification of India, Various Policies post Independence	





POLITY - LOCAL SELF GOVERNMENT, PUBLIC POLICY & RIGHTS ISSUES

DAY	SYLLABUS	TOPICS	SOURCES
103.	Panchayats	Evolution, Functions, 73rd amendment Vs 74th amendment Compulsory and voluntary provision, Basic schemes related to rural development. Give more focus to panchayat than municipality.	Class 11 Indian Constitution at work chapter 8 Laxmikanth's Indian polity chapter 34,35. Ministry website related to Panchayat Raj, Rural & Urban Development (Refer only schemes) https://www.panchayat.gov.in/ http://mohua.gov.in/ https://rural.nic.in/
	Municipality	Types of Urban government, Difficulties faced by urban government in fulfilling the aspirations of people(current affairs and internet) eg. Water scarcity in urban region, pollution. Basic schemes related to urban development	
104.	Union territory	State legislature vs union territory Legislature State governor vs UT'S administrator UT'S ADMINISTRATOR vs CM AND COUNCIL OF MINISTERS	Laxmikanth's Indian Polity Chapter 36
105.	Special status & Provision, Special areas & Schedule 1-12	Special status to J & K – article 370,35A. Who can modify acts, rules for 5th and 6th schedule areas. List of states coming under 5th & 6th schedule. schedule 1-12 basics.	Laxmikanth's Indian Polity Chapter 32 & 37. Refer schedule 1-12 in 3rd Chapter



106.	Constitutional and Non Constitutional Bodies	Give more focus to bodies which are frequently in the news. Study by comparing two-three bodies. appointment, tenure, report it submits. CAG, FINANCE COMMISSION, ELECTION COMMISSION are core area.	Official website and laxmikanthi's Chapters 38-56 Some of the website of constitutional / non constitutional bodies (Refer more such official websites in news) https://cic.gov.in/ https://cag.gov.in/
107.	A - Political parties B - Elections C - Electoral reform D - Anti defection law	Focus on mainly Anti Defection Law and Elections to Parliament, State Legislature, President and vice President. Representation of people's act.	Laxmikanth's Indian Polity Chapters 64-70 Election commission's website FAQ https://eci.gov.in/ Current affairs
108.	Rights Issues & Recent Amendments	It is easier to understand issues related to each section of Population if their policy and issues are studied together.	Official website for policy and Current affairs for issues. https://tribal.nic.in/ https://wcd.nic.in/ http://www.minorityaffairs.gov.in/ http://socialjustice.nic.in/



ECONOMY - POVERTY & DEMOGRAPHICS

DAY	SYLLABUS	TOPICS	SOURCES
109.	Poverty & Unemployment	Definition, Measurement and Poverty alleviation schemes Types, Causes, Measurement	Secondary - Sankarganesh Chapter 4, SIA, ES Economic Survey
110.	Health & Education	Health Coverage, Government Initiatives Government Initiatives	Primary -Shankar IAS academy Economics part 2 Chapter 5 Economic Survey
111.	Demographics	Sectoral Composition Demographic Dividend	Primary -Shankar IAS academy Economics part 2 Chapter 5



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ENVIRONMENT - LEGISLATIONS & MEASURES

DAY	SYLLABUS	TOPICS	SOURCES
112.	Strategies	Paris climate deal, Wildlife protection act 1972, Environmental protection act 1986, Eco sensitive zones Biological diversity act 2002, Schedule tribes and other forest dwellers act 2006, Prevention of animal cruelty act, National forest policy Coastal regulation zone Wetlands rule 2010, National green tribunal	Shankar IAS Environment Chapter 22
113.	Regulatory Authorities, Various Act for Environment Conservation.	Animal welfare board Central zoo authority, National biodiversity authority, Central Govt Acts regarding Environment	Shankar IAS Environment Chapter 24
114.	Conventions	Convention on biological diversity (CBD) Ramsar convention on wetlands, CITES TRAFFIC, Convention on the conservation of migratory species (CMS) Coalition against wildlife trafficking (CAWT), Global tiger forum etc	Shankar IAS Environment Chapter 25, Environmental Ministry Website

ALL THE BEST !!!