

# GS SCORE

An Institute for Civil Services

## IAS 2025

## INTEGRATED TEST SERIES

**Single Source of  
Integrated Preparation**

*for* **PRELIMS & MAINS** *through*

**350<sup>+</sup> HRS.**  
**CONCEPT BUILDING**

**3000<sup>+</sup>**  
**MCQs**

**650<sup>+</sup>**  
**MAINS QUESTIONS**



### INTEGRATED PREPARATION

Especially designed Integrated Test Series that synchronize the syllabus of both Prelims & Mains.



### CONCEPT BUILDING

Informative Classes on all subjects to enhance understanding and conceptual clarity of subjects.



### TESTS

Assessment-based learning modules comprising 96 Tests (45 Prelims Tests & 51 Mains Tests)



### MENTORSHIP

Mentorship through exhaustive Study Planner & Engaging Test discussion and personalised Feedback.



### STUDY MATERIAL

Crisp Value Addition Notes for Contemporary Issues, PYQs and Worksheets

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STARTS**

**10 FEBRUARY  
2024**

*More than just a Test Series*

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# COURSE COMPONENTS & DELIVERABLES

The following tools and steps are to be used during course delivery to build concepts, get desired outcome for aspirants and complete the cycle:

**01**

## APPROACH CLASS

Orient the aspirants with the subject and its nuances before the start of each subject.

**02**

## SCHEMA

Syllabus Detailing Handout to help you understand the scope of the subject

**03**

## RESOURCES

List of essential and reference Resources that should be covered.

**04**

## WORKSHEETS

Various Worksheets like Note making, Key terms & Examples, Reflective exercises, etc. to make you test-ready.

**05**

## CONCEPT CLASSES

These classes will focus on conceptual clarity of the topic and the application of different approaches.

**06**

## PRE-TEST MENTORSHIP

All the doubts related to the approach class, concept classes, and upcoming tests will be taken up.



**OPEN BOOK TEST**

To enhance application-based learning, it will be conducted before prelims and mains tests.

**07****PRELIMS & MAINS TESTS**

The complete syllabus of the UPSC is divided into 96 Tests (Prelims & Mains) to have an assessment of your preparation.

**08****POST-TEST MENTORSHIP**

One-to-one doubt-clearing session after copy evaluation for marks improvement and value addition.

**09****RECALL**

A subject-wise list of questions will be provided which will help you to 'think without ink' for faster revision.

**10****REVISION CLASSES**

There will be a revision class before the Complete Revision Tests for Prelims and Mains.

**11****REVISION TESTS**

This is a focused assessment designed to review and reinforce previously learned material of a subject.

**12**

# LEARNING & ASSESSMENT

**01**

## LEARNING TOOLS



### APPROACH CLASS

- ▣ 10+ hours classes will be provided before starting of each subject.



### CONCEPT CLASSES

- ▣ The 50+ Concept Class (100+ hours) will focus on conceptual clarity application of different approaches.



### REVISION CLASSES

- ▣ There will be a revision class (20+ hours) before the Complete Revision Tests for Prelims and Mains.



### PERSONALISED MENTORSHIP

- ▣ One-to-One doubt clearing session for conceptual clarity, marks improvement and value addition.

**02**

## ASSESSMENT TOOLS

Integrated Tests (Prelims and Mains) including 96 tests categorized as:

### 45 PRELIMS TESTS

- ▣ 20 Topical Tests (50 MCQs)
- ▣ 11 Subject Revision Tests (100 MCQs)
- ▣ 5 Current Affairs Tests (100 MCQs)
- ▣ 3 CSAT Sectional Tests (50 MCQs)
- ▣ 6 Mock Tests (UPCS Pattern)

### 51 MAINS TESTS

- ▣ 34 Topical Tests (10 Qs.)
- ▣ 9 Sectional Tests (20 Qs.)
- ▣ 8 Mock Tests (20 Qs.)

## GENERAL STUDIES

### BOOK LIST & RESOURCES

History & Culture			
Basic Books	Standard Reference Source	Contemporary Material Source	GSSCORE Material
<ul style="list-style-type: none"> <li>• NCERT Class VIII - Our Past III (Part 1 and Part 2)</li> <li>• NCERT Class IX - India and the Contemporary World-I</li> <li>• NCERT Class X - India and the Contemporary World-II</li> <li>• NCERT Class XII - Themes in Indian History - III</li> <li>• NCERT Class XI – An Introduction to Indian Art</li> <li>• NCERT Class XII - Politics in India since Independence</li> <li>• NIOS Senior Secondary Course: History</li> <li>• NIOS Secondary Course: History</li> </ul>	<ul style="list-style-type: none"> <li>• India's Struggle for Independence by Bipin Chandra &amp; Others</li> <li>• India After Independence (1947 - 2000) by Bipin Chandra &amp; Others</li> <li>• From Plassey To Partition and After by Sekhar Bandopadhyaya</li> <li>• The Gazetteer of India: History and Culture Vol II</li> <li>• Trends in Indian Culture and Heritage: Sayeed Ausaf</li> <li>• Indian Art and Culture – Nitin Singhania</li> <li>• The Wonder That Was India - A.L. Bhasham (Culture)</li> </ul>	<ul style="list-style-type: none"> <li>• History &amp; Culture, The Hindu</li> <li>• ccrt.gov.in</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">PRE-CUM-MAINS STUDY MATERIALS</a></li> <li>• <a href="#">GSSCORE Modern History</a></li> <li>• <a href="#">GSSCORE Art &amp; Culture</a></li> <li>• <a href="#">GSSCORE World History</a></li> <li>• <a href="#">GSSCORE PIC</a></li> <li>• <a href="#">Answer Writing Workbook (GS Paper I)</a></li> </ul>

<b>World History</b> <ul style="list-style-type: none"> <li>• The Story of Civilization, Part 2 by Arjun Dev, NCERT</li> <li>• Contemporary World History for class XII (Old NCERT Book)</li> </ul>	<ul style="list-style-type: none"> <li>• Mastering Modern World History by Norman Lowe</li> </ul>		
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## Geography and Disaster Management

Basic Books	Standard Reference source	Contemporary Material Source	GSSCORE Material
<ul style="list-style-type: none"> <li>• NCERT Class VIII – Resources and Development</li> <li>• NCERT Class IX Contemporary India I</li> <li>• NCERT Class X Contemporary India - II</li> <li>• NCERT Class XI Fundamentals of Physical Geography</li> <li>• NCERT Class XI – India Physical Environment</li> <li>• NCERT Class XII -Fundamentals of Human Geography</li> <li>• NCERT Class XII - India - People and Economy</li> <li>• NIOS Senior Secondary Course: Geography</li> </ul>	<ul style="list-style-type: none"> <li>• Physical and Human Geography - G.C Leong</li> <li>• Geography of India by Majid Husain</li> <li>• A standard Dictionary of Geography</li> <li>• Yojana and Kurukshetra for in- depth study of contemporary issues.</li> <li>• Indian Geography by D. R. Khullar</li> <li>• Second ARC report on Disaster Management</li> <li>• School Atlas - Orient Black Swan</li> </ul>	<ul style="list-style-type: none"> <li>• Newspapers: The Indian Express, The Hindu</li> <li>• Down to Earth Magazine</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">PRE-CUM-MAINS STUDY MATERIALS</a></li> <li>• <a href="#">GSSCORE Physical Geography of India</a></li> <li>• <a href="#">GSSCORE World Physical Geography</a></li> <li>• <a href="#">GSSCORE Economic &amp; Human Geography</a></li> <li>• <a href="#">Disaster Management</a></li> <li>• <a href="#">Answer Writing Workbook (GS Paper I)</a></li> </ul>

## Indian Society

Basic Books	Standard Reference source	Contemporary Material Source	GSSCORE Material
<ul style="list-style-type: none"> <li>• NCERT: Class 12 - Indian Society</li> <li>• NCERT: Class 12 - Social Change and Development in India</li> <li>• NCERT Class XII - Social Change and Development in India</li> <li>• NIOS Senior Secondary courses- Sociology</li> </ul>	<ul style="list-style-type: none"> <li>• Social Problems in India 2 Edition - Ram Ahuja</li> </ul>	<ul style="list-style-type: none"> <li>• Newspapers - Indian Express and The Hindu</li> <li>• Yojana &amp; Kurukshetra</li> <li>• EPW</li> <li>• www.prindia.org for social Acts</li> <li>• RSTV videos</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">GSSCORE Indian Society</a></li> <li>• <a href="#">Answer Writing Workbook (GS Paper I)</a></li> </ul>

## Polity & Governance

Basic Books	Standard Reference source	Contemporary Material Source	GSSCORE Material
<ul style="list-style-type: none"> <li>• NCERT Class VIII - Social and Political Life - III</li> <li>• NCERT Class IX - Democratic Politics - I</li> <li>• NCERT Class X - Democratic Politics - II</li> <li>• NCERT Class XI - Political Theory</li> <li>• NCERT Class XI - Indian Constitution at work</li> <li>• NIOS Senior Secondary Course: Political Science</li> </ul>	<ul style="list-style-type: none"> <li>• Our Constitution: Subhash Kashyap</li> <li>• Indian polity: M. Laxmikanth</li> <li>• Introduction to the Constitution of India: D.D. Basu.</li> <li>• From Government to Governance by Kuldeep Mathur</li> <li>• Panchayati Raj in India by Kuldeep Mathur</li> </ul>	<ul style="list-style-type: none"> <li>• The Hindu , Indian Express</li> <li>• PIB,</li> <li>• PRS,</li> <li>• RSTV</li> <li>• Economic and Political Weekly</li> <li>• Law Commission Reports</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">PRE-CUM-MAINS STUDY MATERIALS</a></li> <li>• <a href="#">GSSCORE Indian Polity</a></li> <li>• <a href="#">GSSCORE Governance</a></li> <li>• <a href="#">Answer Writing Workbook (GS Paper II)</a></li> </ul>

	<ul style="list-style-type: none"> <li>• Ethics in Governance, ARC Report</li> <li>• Citizen Centric Administration (Chapters 2, 5, 6, 7 &amp; 8 only and box items in the report)</li> <li>• Human Development Report &amp; World Development Report</li> </ul>		
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## International Relations

Basic Books	Standard Reference source	Contemporary Material Source	GSSCORE Material
<ul style="list-style-type: none"> <li>• NCERT Class XII - Contemporary World Politics</li> </ul>	<ul style="list-style-type: none"> <li>• India's Foreign Policy: Coping with the Changing World by Muchkund Dubey</li> <li>• India's Foreign Policy Since Independence by V.P. Dutt</li> <li>• 'How India Sees the World' - Shyam Saran</li> </ul>	<ul style="list-style-type: none"> <li>• The Hindu, Indian Express</li> <li>• Livemint,</li> <li>• Publications of Observer Research Foundation (ORF)</li> <li>• World Focus</li> <li>• IDSA Website</li> <li>• RSTV</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">GSSCORE IR</a></li> <li>• <a href="#">Answer Writing Workbook (GS Paper II)</a></li> </ul>

## Indian Economy

Basic Books	Standard Reference source	Contemporary Material Source	GSSCORE Material
<ul style="list-style-type: none"> <li>• NCERT Class X - Understanding Economic Development</li> <li>• NCERT Class XI - Indian Economic Development</li> </ul>	<ul style="list-style-type: none"> <li>• Indian Economy by Sanjiv Verma</li> <li>• Indian Economy - Uma Kapila</li> </ul>	<ul style="list-style-type: none"> <li>• The Hindu. Indian Express Newspaper</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">PRE-CUM-MAINS STUDY MATERIALS</a></li> <li>• <a href="#">GSSCORE Indian Economy</a></li> </ul>



<ul style="list-style-type: none"> <li>• NCERT Class XII - Introductory Macroeconomics</li> <li>• NIOS Senior Secondary Course: Economics</li> <li>• NIOS Secondary Course: Economics</li> </ul>	<ul style="list-style-type: none"> <li>• Economics Dictionary published by Collins &amp; Penguin</li> <li>• Three Year Action Agenda, 2017-18 to 2019-20 – NITI Aayog</li> </ul>	<ul style="list-style-type: none"> <li>• LiveMint</li> <li>• Economic Survey Ministry of Finance, Gol.</li> <li>• Yojana' &amp; 'Kurukshetra'</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Answer Writing Workbook (GS Paper III)</a></li> </ul>
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## Ecology & Environment

Basic Books	Standard Reference source	Contemporary Material Source	GSSCORE Material
<ul style="list-style-type: none"> <li>• NCERT Class VII – Our Environment</li> <li>• NIOS Senior Secondary Course: Environmental Science</li> <li>• ICSE Environment Education Class X</li> </ul>	<ul style="list-style-type: none"> <li>• Environment &amp; Ecology - A Complete Guide by R Rajgopalan</li> <li>• Environment and Ecology Biodiversity, Climate Change and Disaster Management - Majid Husain</li> <li>• Certificate Physical &amp; Human Geography by Goh Cheng Leong (Second Half of the Book)</li> </ul>	<ul style="list-style-type: none"> <li>• The Hindu, Indian Express</li> <li>• India Year Book (Chapters on Environment)</li> <li>• Chapter on Climate Change from Economic Survey</li> <li>• Yojana and Kurukshetra</li> <li>• Environmental Ministry Website</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">PRE-CUM-MAINS STUDY MATERIALS</a></li> <li>• GSSCORE Ecology &amp; Environment</li> <li>• <a href="#">Answer Writing Workbook (GS Paper III)</a></li> </ul>

## Science & Tech

Basic Books	Standard Reference source	Contemporary Material Source	GSSCORE Material
<ul style="list-style-type: none"> <li>• VIII, IX, X Standard NCERT books on Biology</li> </ul>	<ul style="list-style-type: none"> <li>• TMH - Science and Technology</li> <li>• India Year Book</li> </ul>	<ul style="list-style-type: none"> <li>• The Hindu, Indian Express Newspaper</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">PRE-CUM-MAINS STUDY MATERIALS</a></li> <li>• <a href="#">GSSCORE Science &amp; Tech</a></li> </ul>

<ul style="list-style-type: none"> <li>• NIOS Senior Secondary Course: Biology</li> </ul>		<ul style="list-style-type: none"> <li>• Monthly Magazine 'Science Reporter for Science &amp; Technology'</li> <li>• Science direct Website</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Answer Writing Workbook (GS Paper III)</a></li> </ul>
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## Security Issues

Basic Books	Standard Reference source	Contemporary Material Source	GSSCORE Material
	<ul style="list-style-type: none"> <li>• Second ARC report on Public order</li> <li>• Second ARC report on Combating Terrorism - Protecting by Righteousness</li> <li>• Second ARC Report on Capacity Building for Conflict Resolution</li> <li>• The Oxford's Handbook of India's National Security</li> <li>• Challenges to Internal Security by Ashok Kumar</li> <li>• Asian School of Cyber Law Booklet</li> </ul>	<ul style="list-style-type: none"> <li>• The Hindu, Indian Express Newspaper</li> <li>• Yojana</li> <li>• IDSA website</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">GSSCORE Internal Security</a></li> <li>• <a href="#">Answer Writing Workbook (GS Paper III)</a></li> </ul>

## DISASTER MANAGEMENT

Basic Books	Standard Reference source	Contemporary Material Source	GSSCORE Material
<ul style="list-style-type: none"> <li>• IGNOU Study Material on Disaster Management</li> </ul>		<ul style="list-style-type: none"> <li>• Newspaper Editorial</li> <li>• Yojana</li> </ul>	

<ul style="list-style-type: none"> <li>• NDMA Guidline</li> <li>• Eleventh Geography NCERT</li> </ul>			
Ethics, Integrity & Aptitude			
Basic Books	Standard Reference source	Contemporary Material Source	GSSCORE Material
<ul style="list-style-type: none"> <li>• Ethics, Integrity &amp; Aptitude: G Subba Rao &amp; P N Roy Chowdhury</li> </ul>	<ul style="list-style-type: none"> <li>• Ethics in Governance, ARC Report</li> <li>• Second ARC Report on Citizen Centric Administration</li> </ul>	<ul style="list-style-type: none"> <li>• Newspaper editorials for analyzing the ethical situations.</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Ethics for IAS Mains</a></li> <li>• <a href="#">Ethics in Governance</a></li> <li>• <a href="#">Ethics human Interface</a></li> <li>• <a href="#">Moral Thinkers &amp; Applied</a></li> </ul>



# SESSION PLAN

Date & Day	Type	Subject	Topics To Be Covered
<b>POLITY</b>			
<b>10 FEBRUARY, 2024</b>	<b>APPROACH CLASS: POLITY</b>		
<b>CONCEPT CLASS: 1</b>			<ul style="list-style-type: none"> <li>◦ Constitutional Development</li> <li>◦ Preamble</li> <li>◦ Union &amp; State</li> <li>◦ Citizenship</li> <li>◦ Amendment</li> </ul>
<b>CONCEPT CLASS: 2</b>			<ul style="list-style-type: none"> <li>◦ Fundamental Rights</li> <li>◦ Directive Principles of State Policy (DPSP)</li> <li>◦ Fundamental Duties</li> </ul>
<b>18 FEBRUARY, 2024</b>	Prelims Test/ Discussion	Polity 1	<ul style="list-style-type: none"> <li>◦ Constitutional Development;</li> <li>◦ Preamble;</li> <li>◦ Union &amp; its Territories;</li> <li>◦ Citizenship;</li> <li>◦ Fundamental Rights;</li> <li>◦ Directive Principles of State Policy (DPSP);</li> <li>◦ Fundamental Duties;</li> <li>◦ Constitutional Amendment</li> </ul>
<b>25 FEBRUARY, 2024</b>	Mains Test/ Discussion	Polity 1	<ul style="list-style-type: none"> <li>◦ Constitution: Indian Constitution- Historical Underpinnings, Evolution, Amendments, Significant Provisions, basic structure and other Constitutional Development;</li> </ul>

Date & Day	Type	Subject	Topics To Be Covered
			<ul style="list-style-type: none"> <li>Comparison of the Indian Constitutional Scheme with that of Other Countries.;</li> <li>Features of the Indian Constitution: Fundamental Rights, DPSPs and Fundamental Duties;</li> <li>Union &amp; its Territory and Citizenship</li> </ul>
CONCEPT CLASS: 3			<ul style="list-style-type: none"> <li>Union &amp; State Executive</li> </ul>
CONCEPT CLASS: 4			<ul style="list-style-type: none"> <li>Union &amp; State Legislature</li> </ul>
03 MARCH, 2024	Prelims Test/ Discussion	Polity 2	<ul style="list-style-type: none"> <li>Executive (Union &amp; States);</li> <li>Legislature(Union &amp; States)</li> </ul>
10 MARCH, 2024	Mains Test/ Discussion	Polity 2	<ul style="list-style-type: none"> <li>Structure, Organization and Functioning of the Executive;</li> <li>Parliament and State Legislatures—Structure, Functioning, Conduct of Business, Powers &amp; Privileges and Issues Arising out of these.</li> </ul>
CONCEPT CLASS: 5			<ul style="list-style-type: none"> <li>Parliamentary System</li> <li>Federal System</li> <li>Centre-State Relations</li> <li>Emergency Provision</li> </ul>
CONCEPT CLASS: 6			<ul style="list-style-type: none"> <li>Local Governance</li> <li>Union Territories and Special Areas</li> </ul>
17 MARCH, 2024	Prelims Test/ Discussion	Polity 3	<ul style="list-style-type: none"> <li>Federalism (Centre-State Relations &amp; Inter-State Relations);</li> </ul>

Date & Day	Type	Subject	Topics To Be Covered
			<ul style="list-style-type: none"> <li>◦ Special Provisions;</li> <li>◦ Types of Emergencies;</li> <li>◦ Local Governance;</li> <li>◦ Union Territories and Special Areas</li> </ul>
<b>24 MARCH, 2024</b>	Mains Test/ Discussion	Polity 3	<ul style="list-style-type: none"> <li>◦ Functions and Responsibilities of the Union and the States, Issues and Challenges Pertaining to the Federal Structure, Devolution of Powers and Finances up to Local Levels and Challenges Therein;</li> <li>◦ Local Governance;</li> <li>◦ Union Territories and Special Areas</li> </ul>
<b>CONCEPT CLASS: 7</b>			<ul style="list-style-type: none"> <li>◦ Judiciary of India</li> <li>◦ High Courts of India</li> <li>◦ Tribunals</li> </ul>
<b>CONCEPT CLASS: 8</b>			<ul style="list-style-type: none"> <li>◦ Constitutional Bodies</li> <li>◦ Non-Constitutional Bodies</li> <li>◦ Political Dynamics</li> <li>◦ Miscellaneous</li> </ul>
<b>31 MARCH, 2024</b>	Prelims Test/ Discussion	Polity 4	<ul style="list-style-type: none"> <li>◦ Judiciary;</li> <li>◦ Constitutional and Non-Constitutional Bodies;</li> <li>◦ Political Dynamics</li> </ul>
<b>07 APRIL, 2024</b>	Mains Test/ Discussion	Polity 4	<ul style="list-style-type: none"> <li>◦ Structure, Organization and Functioning of the Judiciary: Supreme Court, High Court and other judicial bodies;</li> <li>◦ Statutory, regulatory and various quasi-judicial bodies;</li> </ul>

Date & Day	Type	Subject	Topics To Be Covered
			<ul style="list-style-type: none"> <li>Appointment to various Constitutional Posts, Powers, Functions and Responsibilities of various Constitutional and Non-Constitutional Bodies ;</li> <li>Salient features of the Representation of People's Act.</li> <li>Their Forms And Effect On The Society.</li> </ul>
CONCEPT CLASS: 9			<ul style="list-style-type: none"> <li>Polity Revision Class</li> </ul>
14 APRIL, 2024	Prelims Revision Test	Polity	Complete Syllabus
21 APRIL, 2024	Mains Revision Test	Polity	Complete Syllabus
HISTORY			
APPROACH CLASS: HISTORY (ANCIENT & MEDIEVAL INDIA)			
CONCEPT CLASS: 10			<ul style="list-style-type: none"> <li>Ancient India-1</li> </ul>
CONCEPT CLASS: 11			<ul style="list-style-type: none"> <li>Ancient India-2</li> </ul>
28 APRIL, 2024	Prelims Test / Discussion	Ancient History	<ul style="list-style-type: none"> <li>Pre Historic Times , IVC, Vedic Age, Buddhism , Jainism , Mauryans, Guptas And Harshavardhan , South India Kingdoms And Their Development</li> </ul>
CONCEPT CLASS: 12			<ul style="list-style-type: none"> <li>Medieval History</li> </ul>
05 MAY, 2024	Prelims Test / Discussion	Medieval History	<ul style="list-style-type: none"> <li>Major Dynasties (750-1200) Of Early Medieval India, Cholas And Other South Indian Kingdoms;</li> </ul>

Date & Day	Type	Subject	Topics To Be Covered
			<ul style="list-style-type: none"> <li>Early Muslim Invasions, The Delhi Sultanate (1206-1526 Ad);</li> <li>Struggle For Empire In North India (Afghans, Rajputs And Mughals);</li> <li>The Establishment of The North Indian Empire;</li> <li>Consolidation and Expansion of the Empire – Akbar, State and Government Under Akbar;</li> <li>The Maratha and Other Indian States and Society in the 18th Century;</li> <li>Vijayanagar Empire;</li> <li>Regional States In The Medieval Period</li> </ul>
<b>APPROACH CLASS: INDIAN ART &amp; CULTURE</b>			
<b>CONCEPT CLASS: 13</b>			<ul style="list-style-type: none"> <li>The Salient Aspects Of Art Forms, Literature And Architecture From Ancient To Modern Times</li> </ul>
<b>12 MAY, 2024</b>	Mains Test / Discussion	Indian Art & Culture	<ul style="list-style-type: none"> <li>Indian Culture Will Cover The Salient Aspects Of Art Forms, Literature And Architecture From Ancient To Modern Times.</li> </ul>
<b>19 MAY, 2024</b>	Prelims Test / Discussion	Indian Art & Culture	<ul style="list-style-type: none"> <li>Visual Arts + Performing Arts + Religions + Languages + Literature + Science And Technology + Institutions</li> </ul>
<b>APPROACH CLASS: MODERN HISTORY</b>			
<b>CONCEPT CLASS: 14</b>			<ul style="list-style-type: none"> <li>Decline of Mughals; Advent of Europeans</li> </ul>



Date & Day	Type	Subject	Topics To Be Covered
<b>CONCEPT CLASS: 15</b>			<ul style="list-style-type: none"> <li>◦ Impact of British Administration; The Revolt of 1857; Social Reform in British India</li> </ul>
<b>CONCEPT CLASS: 16</b>			<ul style="list-style-type: none"> <li>◦ Tribal Movements; Pre Gandhi Era; National Movements (Struggle by Masses)</li> </ul>
<b>CONCEPT CLASS: 17</b>			<ul style="list-style-type: none"> <li>◦ Independence, Role of Press; Education; Peasant Movement</li> </ul>
<b>26 MAY, 2024</b>	Prelims Test / Discussion	Modern History - 1	<ul style="list-style-type: none"> <li>◦ Advent of Europeans in India;</li> <li>◦ British Conquest and Consolidation of India;</li> <li>◦ Economic and Administrative Policies of British;</li> <li>◦ Social Reform Movements;</li> <li>◦ Growth of Press &amp; Education;</li> <li>◦ Tribal and Peasant Revolts;</li> <li>◦ Revolt of 1857;</li> <li>◦ Early Nationalist Struggle for freedom</li> </ul>
<b>02 JUNE, 2024</b>	Prelims Test / Discussion	Modern History - 2	<ul style="list-style-type: none"> <li>◦ Growth of Modern Industry &amp; working class;</li> <li>◦ Impact of British Rule in India; The Early Organized Nationalist Phase (1885-1905);</li> <li>◦ The Assertive Nationalism Phase (1905-1918);</li> <li>◦ The Gandhian Phase (1919-1947);</li> <li>◦ Important contributors/ contributions from different parts of the country.</li> <li>◦ Significant events of the 20th Century;</li> </ul>

Date & Day	Type	Subject	Topics To Be Covered
			<ul style="list-style-type: none"> <li>◦ Various strands of Freedom Struggle;</li> <li>◦ Significant personality/ personalities;</li> </ul>
<b>09 JUNE, 2024</b>	Mains Test / Discussion	Modern History - 1	<ul style="list-style-type: none"> <li>◦ Advent of Europeans in India;</li> <li>◦ British Conquest and Consolidation of India;</li> <li>◦ Economic and Administrative Policies of British;</li> <li>◦ Social Reform Movements;</li> <li>◦ Growth of Press &amp; Education;</li> <li>◦ Tribal and Peasant Revolts;</li> <li>◦ Revolt of 1857;</li> <li>◦ Early Nationalist Struggle for freedom</li> </ul>
<b>16 JUNE, 2024</b>	Mains Test / Discussion	Modern History - 2	<ul style="list-style-type: none"> <li>◦ Growth of Modern Industry &amp; working class;</li> <li>◦ Impact of British Rule in India; The Early Organized Nationalist Phase (1885-1905);</li> <li>◦ The Assertive Nationalism Phase (1905-1918);</li> <li>◦ The Gandhian Phase (1919-1947);</li> <li>◦ Important contributors/ contributions from different parts of the country.</li> <li>◦ Significant events of the 20th Century;</li> <li>◦ Various strands of Freedom Struggle;</li> <li>◦ Significant personality/ personalities;</li> </ul>
<b>CONCEPT CLASS: 18</b>			<ul style="list-style-type: none"> <li>◦ History &amp; Culture Revision Class</li> </ul>

Date & Day	Type	Subject	Topics To Be Covered
23 JUNE, 2024	Prelims Revision Test	History & Culture of India	Complete Syllabus
30 JUNE, 2024	Mains Revision Test	History & Culture Of India	Complete Syllabus

## ECONOMY

### APPROACH CLASS: ECONOMY

CONCEPT CLASS: 19			<ul style="list-style-type: none"> <li>Basics of Economy; Monetary Policy; Banking; Financial</li> </ul>
CONCEPT CLASS: 20			<ul style="list-style-type: none"> <li>Market; National Income</li> </ul>
CONCEPT CLASS: 21			<ul style="list-style-type: none"> <li>Public Finance; Taxation; Poverty; Inclusive Growth</li> </ul>
07 JULY, 2024	Prelims Test/ Discussion	Economy 1	<ul style="list-style-type: none"> <li>Fundamental of Economy (NCERT);</li> <li>Micro economy, Macro economy; Planning &amp; National Income Accounting of India;</li> <li>Inflation;</li> <li>Mobilization of resources, growth, development and employment</li> </ul>
14 JULY, 2024	Mains Test/ Discussion	Economy 1	<ul style="list-style-type: none"> <li>Indian Economy &amp; issues relating to planning, mobilization of resources, growth, development and employment;</li> <li>Inclusive growth and issues arising from it;</li> <li>Human development, Sustainable development</li> </ul>

Date & Day	Type	Subject	Topics To Be Covered
21 JULY, 2024	Prelims Test/ Discussion	Economy 2	<ul style="list-style-type: none"> <li>Money, Banking, RBI and Monetary Policy;</li> <li>Public Finance, Fiscal policy &amp; Government Budgeting.</li> </ul>
28 JULY, 2024	Mains Test/ Discussion	Economy 2	<ul style="list-style-type: none"> <li>Money, Banking, RBI and Monetary Policy;</li> <li>Public Finance, Fiscal policy &amp; Government Budgeting.</li> </ul>
CONCEPT CLASS: 22			<ul style="list-style-type: none"> <li>Planning; Balance of Payment; LPG Reforms; Agriculture, food processing, and Land Reforms,</li> </ul>
CONCEPT CLASS: 23			<ul style="list-style-type: none"> <li>Industry; Services; Employment</li> </ul>
CONCEPT CLASS: 24			<ul style="list-style-type: none"> <li>External Sector; Trade, Infrastructure; Investment Models; International Bodies</li> </ul>
31 JULY, 2024	Prelims Test/ Discussion	Economy 3	<ul style="list-style-type: none"> <li>Sectors of Economy (Agriculture, Industry, Services, and External sectors);</li> <li>Recent Developments</li> </ul>
04 AUGUST, 2024	Mains Test/ Discussion	Economy 3	<ul style="list-style-type: none"> <li>Major crops cropping patterns in various parts of the country, different types of irrigation and irrigation systems storage, transport and marketing of agricultural produce &amp; issues &amp; related constraints; e-technology in the aid of farmers.;</li> <li>Issues related to direct and indirect farm subsidies and minimum support prices; Public Distribution System- objectives, functioning,</li> </ul>

Date & Day	Type	Subject	Topics To Be Covered
			limitations, revamping; issues of buffer stocks and food security; Technology missions; economics of animal-rearing; <ul style="list-style-type: none"><li>◦ Food processing and related industries in India- scope and significance, location, upstream and downstream requirements, supply chain management;</li><li>◦ Land reforms in India.</li></ul>
07 AUGUST, 2024	Mains Test/ Discussion	Economy 4	<ul style="list-style-type: none"><li>◦ Effects of liberalization on the economy, changes in industrial policy and their effects on industrial growth;</li><li>◦ Infrastructure: Energy, Ports, Roads, Airports, Railways etc.;</li><li>◦ Investment models.</li></ul>
CONCEPT CLASS: 25			<ul style="list-style-type: none"><li>◦ Economy Revision Class</li></ul>
11 AUGUST, 2024	Prelims Revision Test	Economy	Complete Syllabus
14 AUGUST, 2024	Mains Revision Test	Economy	
APPROACH CLASS: ESSAY			
CONCEPT CLASS: 26			<ul style="list-style-type: none"><li>◦ Drawing Big Picture and Brainstorming</li></ul>
CONCEPT CLASS: 27			<ul style="list-style-type: none"><li>◦ Critical Thinking, Effective Communication and Structuring of Essay</li></ul>
CONCEPT CLASS: 28			<ul style="list-style-type: none"><li>◦ Context and Perspective Setting</li></ul>

Date & Day	Type	Subject	Topics To Be Covered
CONCEPT CLASS: 29			<ul style="list-style-type: none"> <li>How to write Contemporary Essay</li> </ul>
CONCEPT CLASS: 30			<ul style="list-style-type: none"> <li>Common Mistake Discussion</li> </ul>
18 AUGUST, 2024	Mains Test/ Discussion	Essay 1	Essay Mock Test - 1
<b>GEOGRAPHY</b>			
<b>APPROACH CLASS: GEOGRAPHY</b>			
CONCEPT CLASS: 31			<ul style="list-style-type: none"> <li>Origin of Earth; Geomorphology</li> </ul>
25 AUGUST, 2024	Prelims Test/ Discussion	Physical Geography World -1	<ul style="list-style-type: none"> <li>Geomorphology - Earth's Interior</li> <li>Earthquakes</li> <li>Volcanoes</li> <li>Physiography</li> <li>Geomorphic Processes</li> <li>Landforms And Their Evolution</li> </ul>
29 AUGUST, 2024	Mains Test/ Discussion	Physical Geography World -1	<ul style="list-style-type: none"> <li>Physical 1 (Geomorphology And Geographical Phenomenon)</li> <li>Important Geophysical Phenomena Such As Earthquakes, Tsunami, Volcanic Activity, Cyclone Etc.,</li> <li>Geographical Features &amp; Their Location- Changes In Critical Geographical Features (Including Water-Bodies And Ice-Caps) And In Flora And Fauna And The Effects Of Such Changes.</li> </ul>
CONCEPT CLASS: 32			<ul style="list-style-type: none"> <li>Climatology; Oceanography; Bio Geography</li> </ul>

Date & Day	Type	Subject	Topics To Be Covered
<b>01 SEPTEMBER, 2024</b>	Prelims Test/ Discussion	Physical Geography World - 2	<ul style="list-style-type: none"> <li>◦ Climatology</li> <li>◦ Oceanography</li> <li>◦ Biogeography</li> </ul>
<b>05 SEPTEMBER, 2024</b>	Mains Test/ Discussion	Physical Geography World - 2	<ul style="list-style-type: none"> <li>◦ Climatology</li> <li>◦ Oceanography</li> <li>◦ Biogeography</li> </ul>
<b>CONCEPT CLASS: 33</b>			<ul style="list-style-type: none"> <li>◦ Indian Geography</li> </ul>
<b>08 SEPTEMBER, 2024</b>	Prelims Test/ Discussion	Physical Geography India	<ul style="list-style-type: none"> <li>◦ Geological Structure, Physiography, Climate &amp; Drainage System</li> </ul>
<b>12 SEPTEMBER, 2024</b>	Mains Test/ Discussion	Physical Geography India	<ul style="list-style-type: none"> <li>◦ Indian Physical Geography</li> </ul>
<b>CONCEPT CLASS: 34</b>			<ul style="list-style-type: none"> <li>◦ Economic Geography; Agriculture; Human Geography</li> </ul>
<b>15 SEPTEMBER, 2024</b>	Prelims Test/ Discussion	Geography Human & Economic (India + World)	<ul style="list-style-type: none"> <li>◦ Demography + Census + Economic Activities + Agriculture + Minerals + Energy + Industry + Transport + Trade + Communication</li> </ul>
<b>19 SEPTEMBER, 2024</b>	Mains Test/ Discussion	Geography Human And Economic (India + World)	<ul style="list-style-type: none"> <li>◦ Human (Demography, Census, Settlement, Migration And Human Development) &amp; Economic Geography</li> <li>◦ Distribution Of Key Natural Resources Across The World (Including South Asia And The Indian Sub-Continent);</li> <li>◦ Factors Responsible For The Location Of Primary, Secondary, And Tertiary Sector Industries In Various Parts Of The World (Including India)</li> </ul>

Date & Day	Type	Subject	Topics To Be Covered
CONCEPT CLASS: 35			Geography Revision Class
22 SEPTEMBER, 2024	Prelims Revision Test	Geography	Complete Syllabus
25 SEPTEMBER, 2024	Mains Revision Tes	Geography	Complete Syllabus
29 SEPTEMBER, 2024	Mains Test/ Discussion	Essay 2	Essay Mock Test - 2
SOCIETY			
APPROACH CLASS: SOCIETY			
CONCEPT CLASS: 36			◦ Basics of Society and Social Justice
CONCEPT CLASS: 37			
06 & 13 OCTOBER, 2024	Mains Tests / Discussion	Society 1&2	◦ Salient Features of Indian Society, Diversity Of India. ◦ Role Of Women And Women's Organization, Population And Associated Issues, Poverty And Developmental Issues, Urbanization, Their Problems And Their Remedies. ◦ Effects Of Globalization On Indian Society Social Empowerment, Communalism, Regionalism & Secularism.
ETHICS			
APPROACH CLASS: ETHICS			
CONCEPT CLASS: 38			◦ Ethics & Human Interface



Date & Day	Type	Subject	Topics To Be Covered
<b>CONCEPT CLASS: 39</b>			<ul style="list-style-type: none"> <li>Approach to Answer Writing</li> </ul>
<b>CONCEPT CLASS: 40</b>			<ul style="list-style-type: none"> <li>Case Study – Session 1</li> </ul>
<b>24 OCTOBER, 2024</b>	Mains Test/ Discussion	Ethics-1	<ul style="list-style-type: none"> <li>Ethics Theory 1 : Ethics &amp; Human Interface + Case Studies</li> </ul>
<b>CONCEPT CLASS: 41</b>			<ul style="list-style-type: none"> <li>Ethics in Governance</li> </ul>
<b>CONCEPT CLASS: 42</b>			<ul style="list-style-type: none"> <li>Case Study – Session 2</li> </ul>
<b>31 OCTOBER, 2024</b>	Mains Test/ Discussion	Ethics-2	<ul style="list-style-type: none"> <li>Ethics Theory 2 : Ethics &amp; Governance + Case Studies</li> </ul>
<b>CONCEPT CLASS: 43</b>			<ul style="list-style-type: none"> <li>Applied Ethics</li> </ul>
<b>CONCEPT CLASS: 44</b>			<ul style="list-style-type: none"> <li>Case Study – Session 3</li> </ul>
<b>07 NOVEMBR, 2024</b>	Mains Test/ Discussion	Ethics-3	<ul style="list-style-type: none"> <li>Ethics Thoery 3 : Applied Ethics+Case Study</li> </ul>
<b>CONCEPT CLASS: 45</b>			<ul style="list-style-type: none"> <li>Ethics Revision Class</li> </ul>
<b>14 NOVEMBR, 2024</b>	<b>Mains Revision Test</b>	<b>Ethics 4</b>	<b>Complete Syllabus</b>
<b>21 NOVEMBR, 2024</b>	Mains Test	Essay 3	Essay Mock Test - 3
<b>IR + WORLD HISTORY</b>			
<b>APPROACH CLASS: IR &amp; WORLD HISTORY</b>			
<b>01 DECEMBER, 2024</b>	Mains Test/ Discussion	International Relations 1	<ul style="list-style-type: none"> <li>India's Foreign Policy;</li> <li>India and its neighbourhood-relations;</li> <li>Regional Groupings;</li> </ul>

Date & Day	Type	Subject	Topics To Be Covered
			<ul style="list-style-type: none"> <li>India and Extended Neighbourhood;</li> <li>West Asia/Middle East</li> </ul>
<b>08 DECEMBER, 2024</b>	Mains Test/ Discussion	International Relations 2	<ul style="list-style-type: none"> <li>India and the World; Global groupings;</li> <li>Global Issues;</li> <li>Effect of policies and politics of developed and developing countries on India's interests, Indian Diaspora;</li> <li>Important International institutions, agencies and fora- their structure, mandate</li> </ul>
<b>15 DECEMBER, 2024</b>	Mains Test/ Discussion	World History	<ul style="list-style-type: none"> <li>History Of The World Will Include EVents From 18th Century Such As Industrial Revolution, World Wars, Redrawal Of National Boundaries, Colonization, Decolonization, Political Philosophies Like Communism, Capitalism, Socialism Etc.</li> <li>Their Forms And Effect On The Society.</li> </ul>
<b>22 DECEMBER, 2024</b>	Mains Revision Test	International Relations + World History	<b>Complete Syllabus</b>
<b>29 DECEMBER, 2024</b>	Prelims Test	Current Affairs	<b>Current Affairs-1 (Jan 2024 - April 2024)</b>

## GOVERNANCE & SCHEMES

APPROACH CLASS: GOVERNANCE & SCHEMES

Date & Day	Type	Subject	Topics To Be Covered
<b>CONCEPT CLASS: 46</b>			<ul style="list-style-type: none"> <li>Transparency; Accountability; E-governance; Citizen Charter; Role of Civil Services in Democracy, Welfare schemes, Poverty, Hunger etc</li> </ul>
<b>05 JANUARY, 2025</b>	Prelims Test/ Discussion	Governance And Schemes	<ul style="list-style-type: none"> <li>Socio Economic Development + Reforms + Bills + Welfare Schemes + Policies</li> </ul>
<b>12 JANUARY, 2025</b>	Mains Test/ Discussion	Governance & Social Issues - 1	<ul style="list-style-type: none"> <li>Important Aspects Of Governance, Transparency And Accountability, E-Governance- Applications, Models, Successes, Limitations, And Potential;</li> <li>Citizens Charters, Transparency &amp; Accountability And Institutional And Other Measures.</li> <li>Role Of Civil Services In A Democracy.</li> <li>Government Policies And Interventions For Development In Various Sectors And Issues Arising Out Of Their Design And Implementation.</li> </ul>
<b>16 JANUARY, 2025</b>	Mains Test/ Discussion	Governance & Social Issues - 2	<ul style="list-style-type: none"> <li>Development Processes And The Development Industry The Role Of Ngos, Shgs, Various Groups And Associations, Donors, Charities, Institutional And Other Stakeholders.</li> <li>Welfare Schemes For Vulnerable Sections Of The Population By The Centre And States And The Performance Of These Schemes;</li> </ul>

Date & Day	Type	Subject	Topics To Be Covered
			<ul style="list-style-type: none"> <li>◦ Mechanisms, Laws, Institutions And Bodies Constituted For The Protection And Betterment of These Vulnerable Sections;</li> <li>◦ Issues Relating To Development And Management of Social Sector/Services Relating To Health, Education, Human Resources. Issues Relating to Poverty and Hunger.</li> </ul>
CONCEPT CLASS: 47			<b>Governance &amp; Society Revision Class</b>
23 JANUARY, 2025	Mains Revision Test	Governance & Society	Complete Syllabus
<b>INTERNAL SECURITY + PIC</b>			
<b>APPROACH CLASS: INTERNAL SECURITY</b>			
23 JANUARY, 2025	Mains Test/ Discussion	Internal Security 1	<ul style="list-style-type: none"> <li>◦ Linkages between development and spread of extremism;</li> <li>◦ Role of external state and non-state actors in creating challenges to internal security; Challenges to internal security through communication networks;</li> <li>◦ The role of media and social networking sites in internal security challenges, basics of cyber security;</li> <li>◦ Challenges to internal security through communication networks</li> </ul>

Date & Day	Type	Subject	Topics To Be Covered
<b>05 FEBRAURY, 2025</b>	Mains Test/ Discussion	Internal Security 2	<ul style="list-style-type: none"> <li>◦ Money-laundering and its prevention;</li> <li>◦ Security challenges and their management in border areas;</li> <li>◦ Linkages of organized crime with terrorism;</li> <li>◦ Various Security forces and agencies and their mandate; Other security issues;</li> <li>◦ Governance issues related to internal security</li> </ul>
<b>APPROACH CLASS: PIC</b>			
<b>11 FEBRUARY, 2025</b>	Mains Test/ Discussion	Post-PIC	<ul style="list-style-type: none"> <li>◦ Post-Independence Consolidation And Reorgani- zation Within The Country.</li> </ul>
<b>CONCEPT CLASS: 48</b>			<b>Internal Security + PIC Revision Class</b>
<b>16 FEBRUARY, 2025</b>	Mains Revision Test	Internal Security + PIC	<b>Complete Syllabus</b>
<b>SCIENCE &amp; TECHNOLOGY</b>			
<b>APPROACH CLASS: SCIENCE &amp; TECH</b>			
<b>CONCEPT CLASS: 49</b>			<ul style="list-style-type: none"> <li>◦ Science &amp; tech Developments And Their; Applications And Effects In Everyday Life</li> </ul>
<b>23 FEBRUARY, 2025</b>	Prelims Test/ Discussion	Science & Tech	<ul style="list-style-type: none"> <li>◦ Complete Syllabus (Fundamentals of Science : Biology + Everyday Science + Biotech + Health Defence + Space + IT + Telecom + IPR + Nanotech + Robotics + Nuclear Tech)</li> </ul>

Date & Day	Type	Subject	Topics To Be Covered
02 MARCH, 2025	Mains Test/ Discussion	Science & Tech	<ul style="list-style-type: none"> <li>Science And Technology- Developments And Their Applications And Effects In Everyday Life</li> </ul>
CONCEPT CLASS: 50			<ul style="list-style-type: none"> <li>Science &amp; Technology Revision Class</li> </ul>
<b>ENVIRONMENT + DISASTER MANAGEMENT</b>			
<b>APPROACH CLASS: ENVIRONMENT + DISASTER MANAGEMENT</b>			
CONCEPT CLASS: 51			<ul style="list-style-type: none"> <li>Ecology and its dynamics; Biogeochemical Cycles; Biomes</li> </ul>
CONCEPT CLASS: 52			<ul style="list-style-type: none"> <li>Pollution &amp; Degradation; Biodiversity; Conservation</li> </ul>
06 MARCH, 2025	Prelims Test/ Discussion	Environment 1	<ul style="list-style-type: none"> <li>Ecology + Biodiversity And Its Conservation</li> </ul>
08 MARCH, 2025	Mains Test/ Discussion	Environment	<ul style="list-style-type: none"> <li>Environment And Disaster Management 1</li> </ul>
CONCEPT CLASS: 53			<ul style="list-style-type: none"> <li>Climate Change; Conservation efforts: India and World; Environmental Governance; Environmental laws, bodies, conventions and policies &amp; Environmental Impact Assessment</li> </ul>
11 MARCH, 2025	Prelims Test/ Discussion	Environment 2	<ul style="list-style-type: none"> <li>Environmental Management + Governance+ Environmental Pollution + Climate Change</li> </ul>
14 MARCH, 2025	Mains Test/ Discussion	Environment	<ul style="list-style-type: none"> <li>Environment And Disaster Management 2</li> </ul>

Date & Day	Type	Subject	Topics To Be Covered
CONCEPT CLASS: 54			◉ Environment & DM Revision Class
20 MARCH, 2025	Prelims Revision Test	Environment	Complete Syllabus
21 MARCH, 2025	Mains Revision Test	Environment	
24 MARCH, 2025	Prelims Test	Current Affairs	Current Affairs-2 (May to August 2024)

Type	Subject & No. Of Questions	Topics To Be Covered
SECTIONAL TEST		
PRELIMS TEST	Polity & Governance	Complete Syllabus
	History & Culture of India	Complete Syllabus
	CSAT-1	CSAT - Reasoning
	Economy	Complete Syllabus
	Geography	Complete Syllabus
	CSAT-2	CSAT - General Mental Ability
	Science & Tech	Complete Syllabus
	Environment	Complete Syllabus
	CSAT-3	CSAT - Reading Comprehension
	Current Affairs-3	Sept to Dec 2024
	Mock Test-1	GS Paper 1
	Mock Test-2	CSAT Paper 2
	Mock Test-1	GS Paper 1
	Mock Test-2	CSAT Paper 2
	Mock Test-1	GS Paper 1
	Mock Test-2	CSAT Paper 2
	Current Affairs-4	Economic Survey + Budget + IYB
	Current Affairs-5	Jan to April 2025

## FULL MOCK TEST

MAINS TEST	Mock Test 1	Paper 1
	Mock Test 2	Paper 2
	Mock Test 3	Paper 3
	Mock Test 4	Paper 4
	Mock Test 5	Paper 1
	Mock Test 6	Paper 2
	Mock Test 7	Paper 3
	Mock Test 8	Paper 4





# **POLITY**

## **(SUB TOPIC LISTING)**

## APPROACH CLASS (POLITY)

### PRELIMS TEST

### POLITY – 1

- Constitutional Development
- Preamble
- Union & its Territories
- Citizenship
- Fundamental Rights
- Directive Principles of State Policy (DPSP)
- Fundamental Duties
- Constitutional Amendment

### 1. Historical Evolution and Features

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

### 2. Preamble

- Basic features
- Value premises of constitution
- Right to Constitutional Remedies
- Difference between procedure established by law and due process of law

- Writs and their uses
- Restrictive limitations on fundamental rights
- Sovereign
- Socialist
- Secular
- Republic
- Justice
- Equality
- Liberty
- Fraternity
- Integrity

### 3. DPSP

- Basic features
- Directives
- Economic and Social DPSP
- Gandhian DPSP
- Administrative DPSP
- DPSP related to international peace
- Implementation of DPSP

### 4. Fundamental Rights

- Meaning and importance of Fundamental Rights

- Right to equality
- Right to Freedom
- Right against Exploitation
- Right to Freedom of Religion
- Cultural and Educational Rights

## 5. Fundamental Duties

- Features
- Link of Fundamental Rights and Fundamental Duties

## 6. Citizenship

- Basic constitutional features
- Methodology of getting citizenship

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

## 7. Amendments

- Procedure of amendment
- Special majorities
- Important amendments
- Special provisions to different states
- Provisions related to NE states
- Provisions related to J&K

## MAINS TEST

## POLITY - 1

### UPSC SYLLABUS

- Constitution: Indian Constitution- Historical Underpinnings, Evolution, Amendments, Significant Provisions, basic structure and other Constitutional Development
- Comparison of the Indian Constitutional Scheme with that of Other Countries.
- Features of the Indian Constitution: Fundamental Rights, DPSPs and Fundamental Duties
- Union & its Territory and Citizenship

## CONSTITUTIONAL FRAMEWORK

### 1. Historical underpinning

- Constitution: Why and How?
- Historical Background

### 2. Evolution

- Constituent Assembly and its vision of future

- Making of the Constitution
- Constitution as a living document
- Democracy and diversity
- Outcomes of democracy
- Crisis of Democratic order
- National Commission to Review the Working of the Constitution
- Comparison of the Indian Constitutional scheme with that of other countries

### 3. Features

- Sources of the Constitution
- Salient features of the Constitution
- The Philosophy of the Constitution
- System of Government: Parliamentary & Presidential System
- Role of Convention under the Constitution
- Comparison between Judicial Review and Parliamentary Supremacy

### 4. Amendments

- Amendment of the Constitution
- Keshvanand Bharti Case Judgement
- 42<sup>nd</sup> and 44<sup>th</sup> Amendment to the Constitution
- The Constitution (103<sup>rd</sup> Amendment) Act, 2019 (124<sup>th</sup> Constitution Amendment Bill) to provide 10% reservation in government jobs and educational institutions to the economically weaker sections (EWS)
- The Constitution (125<sup>th</sup> Amendment) Bill, 2019

### 5. Significant Provisions

- Preamble of the Constitution
  - ▶ Debate : Is Preamble part of the Constitution and its amendment
- Citizenship
  - ▶ National Register of Citizens
- Fundamental Rights
  - ▶ Rule of Law

- ▶ Procedure Established by Law vs Due Process of Law
- ▶ Exceptions to Fundamental Rights
- ▶ Amenability of Fundamental Rights
- ▶ Rights following from other provision of the Constitution
- Major Debates/ Issues around Fundamental Rights:
  - ▶ Limitations upon the Freedom
  - ▶ Freedom of Press and Censorship
  - ▶ Free Speech: Rights & Limits and Hate speech
  - ▶ Data protection: Privacy Vs. Innovation
  - ▶ RTI amendments
  - ▶ Sedition-Law- Comprehensive public discussion regarding Section 124A of the Indian Penal Code 1860
  - ▶ Right To Information Act 2005.
  - ▶ 'Living wills'/ Euthanasia
  - ▶ Restriction on the entry of women in places of worship
  - ▶ Reservation in India – Explained in Layman's Terms
  - ▶ Reservation in promotion
  - ▶ Aadhaar and Privacy issues
  - ▶ Constitutionality of article 35A
- Directive Principles of the State Policy
  - ▶ Scope of DPSP: Economic and Social Democracy

- Implantation of Directives
- Conflict between Fundamental Rights and role of judiciary in harmonizing them
- Challenge of implementing Uniform civil code
- ◉ Fundamental Duties
- ◉ Union Territories
- ◉ Chief Minister Vs Lieutenant Governor: Rules, Rights and Responsibilities
- ◉ Special Status of Jammu and Kashmir
- ◉ Kashmir Unrest
- ◉ Special Provisions for some States
- ◉ Scheduled and Tribal areas

- ◉ Official Language
- ◉ Reasons for the 58<sup>th</sup> Amendment

## 6. Major Doctrines

- ◉ Doctrine of Basic Structure of the Constitution
- ◉ Doctrine of Harmonious Construction
- ◉ Doctrine of Eclipse
- ◉ Doctrine of Pith and Substance
- ◉ Doctrine of Incidental or Ancillary Powers
- ◉ Doctrine of Colourable Legislation
- ◉ Doctrine of Severability
- ◉ Doctrine of Territorial Nexus
- ◉ Doctrine of Laches

## PRELIMS TEST

## POLITY - 2

### (EXECUTIVE + LEGISLATURE)

## 1. Union Executive

### ◉ The President

- Importance of President
- Qualification
- Election procedure
- Advantages and disadvantages of single transferable form of voting
- Presidents' Term of Office and emoluments
- Executive Powers
- Legislative Powers
- Emergency Powers
- Financial Powers
- Miscellaneous powers

- Judicial powers
- Presidents Impeachment
- President as nominal head

### ◉ Vice President

- Office of the Vice-President
- Functions

### ◉ Prime Minister

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

- **Council of Ministers**

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

- **Attorney General of India**

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

## 2. Parliament

- Functions of Parliament
- Composition of Rajya Sabha
- Composition of Lok Sabha
- Qualification and disqualification of MPs
- Vacation of seats
- Sessions of parliament
- Law making procedure
- Officers of Parliament
- Parliament Proceedings
- Motions and resolutions in Parliament
- Powers and Privileges
- Budget making process
- Comparison of Lok Sabha and Rajya Sabha
- Types of majorities
- Special powers of RS

## 3. Comptroller and Auditor-General of India

- Appointment
- Functions
- Role of CAG in good governance

## 4. State Executive

- **The Governor**

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

- **CM**

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

- **CoM**

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

- **The Advocate-General for the State**

- ▶ Appointment
- ▶ Functions

## 5. State legislature

- The composition of Vidhan Sabha and Vidhan Parishad
- Qualifications of the Members of Legislature
- Powers and Functions of State Legislature
- Relationship between both the Houses
- Officers of State Legislature
- Powers, Privileges and

Immunities of State Legislatures and their Members

- Legislative procedure
- Governor's assent to Bills
- Procedure in Financial Matters/ Budget

## 6. Major Issues

- President Election Procedure (Rights to vote or not to vote)
- Concept of Office of Profit
- Types of CAG audit
- Committee of Governors Report
- Reforms in Parliament functioning to increasing efficiency
- Dilemma of delimitation
- Significance of WHIP
- Declaration of assets of MP's
- NOTA in Rajya Sabha polls
- Demand for a hybrid electoral system
- Various types of electoral systems

- First past the post system
- Proportional representation
- Mixed systems also sometimes referred to as Hybrid system
- Motion of Thanks
- Privileges to MP
- Ordinance making powers
- Parliamentary committees
- National Court of Appeal
- Middle Income Group Legal Aid Scheme
- Public Interest Litigation
- Criminal Defamation
- Capital Punishment
- E-Courts
- Tele-law initiative
- Pro-bono legal services
- Prison reforms
- Law panel on TRIBUNALS
- S.C Collegium proceedings in public domain
- Law Commission Report on United Nations Convention against Torture

## MAINS TEST

## POLITY - 2

### UPSC SYLLABUS

- Functions and responsibilities of the Union and the States.
- Issues and challenges pertaining to the federal structure
- Devolution of powers and finances up to local levels and challenges therein.
- Parliament and State Legislatures - structure, functioning, conduct of business, powers & privileges and issues arising out of these.

## 1. Structure, Organization and Functioning of the Union Executive

- President
  - President of India – Discretionary Powers- Imposition of President's rule



- ▶ Is President a mere Rubber Stamp
- Vice President
- Prime Minister
- Central Council of Ministers
- Cabinet Committees

## 2. Structure, organization and functioning of the State executive

- Governor
- Provisions related to removal of Governor (Article 156)
- Politicization of the Post of Governor
- Chief Minister
- State Council of Ministers

## 3. Parliament

- Parliament
  - ▶ Sessions of Parliament: Adjournment, Prorogation, Dissolution etc.
  - ▶ Lacunas in Parliamentary Functioning in India
  - ▶ When Does a Bill Lapse in Indian Parliament?
  - ▶ Types of Majorities Used in the Indian Parliament.

- ▶ Election to Rajya Sabha: The Procedure.
- ▶ Relevance of Rajya Sabha
- Government Budgeting: Indian Budget for Beginners.
- Budget Documents Made Simple: Key to Budget Documents.
- Cut Motions: Policy Cut, Economy Cut, and Token Cut.
- Misuse of Ordinance promulgation power
- Office of the Speaker: Powers and Issues
- Issue related to office of profit
- Breach Of Privilege: Special privileges to MP's and its implications
- Parliamentary Committees
  - ▶ Parliamentary Committees in Lok Sabha and Rajya Sabha.
  - ▶ Diminishing importance of parliamentary committees

## 4. State Legislature

- State Legislature
- Full statehood to Delhi: Should it be granted or not?
- Relevance of Council of State

### PRELIMS TEST

### POLITY - 3

#### UPSC SYLLABUS

- Federalism (Centre-State Relations & Inter-State Relations)
- Special Provisions
- Types of Emergencies
- Local Governance
- Union Territories and Special Areas

## 1. Union and States

- State Reorganization

Commission (brief)

- Components of Indian territory



- Process of formation of new states
- Zonal Councils
- Union territories
- Special provisions for states

## 2. Panchayats

- Brief history
- Provisions of 73<sup>rd</sup> AA
- Role and functions of different tiers
- Provisions of 74<sup>th</sup> AA
- Role and functions of different tiers
  - ▶ Municipal Corporations
  - ▶ Municipal Councils
  - ▶ Nagar Panchayats
- The steps taken towards women's empowerment
- Role of State Election Commission
- Role of State Finance Commission
- XI<sup>th</sup> and XII<sup>th</sup> Schedules

## 3. The Scheduled and Tribal Areas

- 5<sup>th</sup> schedule areas
- 6<sup>th</sup> schedule areas
- Composition of autonomous councils
- Role and functions of councils
- Role of Governor with respect to tribal areas
- Tribal sub plan

## 4. Federalism (Centre-State Relations & Inter-State Relations)

- Administrative, Legislative, and Financial relations between Centre and states
- Interstate Relations, Interstate councils, Zonal councils
- Cooperative federalism: concept and various dimensions
- Issue of devolution of funds, Special category states, etc.

## 5. Special Provisions Relating To Certain Classes

- Reservation of seats for Scheduled Castes and Scheduled Tribes in centre and state legislatures
- Representation of the Anglo-Indian Community
- National Commission for Scheduled Castes and Scheduled Tribes

## 6. Official language provisions

- Official language of the Union
- Commission and Committee of Parliament on official language
- Official language or languages of a State
- Official language for communication between one State and another or between a State and the Union
- Language of The Supreme Court, High Courts, etc.
- Special Officer for linguistic minorities

## 7. Emergency Provisions

- National emergency
- State emergency
- Financial emergency
- Procedure of proclamation and removal of emergency
- Emergency and fundamental rights
- Impact of emergencies

### MAINS TEST

### POLITY - 3

#### UPSC SYLLABUS

- Functions and Responsibilities of the Union and the States, Issues and Challenges Pertaining to the Federal Structure, Devolution of Powers and Finances up to Local Levels and Challenges Therein
- Local Governance
- Union Territories and Special Areas

## 1. Issues And Challenges Pertaining To The Federal Structure

- Union and its territory
- Formation of state and Altercation of boundaries
- Nature of Federal System
- Peculiar features of Indian federalism
- A Critique of the Federal System
- Challenges of Nation building
- Challenges Of Special Status State And Problems
- Demand for New states: Gorkhaland, Nagalim, Vidharbha, Purvanchal etc.
- Era of One-Party dominance
- Regional aspirations
- Emergency Provisions
- Imposition of President Rule
- Fundamental Rights during Emergency

## 2. Mechanism, Laws, Institutions and Bodies Constituted for the protection and betterment of these vulnerable sections

- Special Provisions relating to Certain Classes
- Muslim Personal law: Polygamy/ Triple Talaq
- Scheduled and Tribal Areas
- SC/ST Act judgment: Protecting the innocent or diluting the Protection?

## 3. Functions and Responsibilities of the Union and States

- 7<sup>th</sup> Schedule

## 4. Separation Of Power

- Power Sharing
- Centre-State Relations
- Inter-State Council vs National Development Council.

- Separate State Flag in Karnataka
- NITI Aayog: The new 'think-tank' to replace Planning Commission.
- Foreign Policy

## 5. Dispute Redressal Mechanisms And Institutions

- Inter-State Relations
- Inter-state River Water Dispute
- Parliamentary Forums
- Parliamentary Groups
- Administrative Tribunals
- National Integration

## 6. Devolution Of Powers And Finances Up To Local Levels And Challenges Therein

- Local Governments
- Nagaland Reservation in Urban Bodies
- Education Qualification made mandatory for contesting Local Government Elections
- Panchayati Raj and PESA 1996
- Municipalities
- Reforms needed in Municipalities in Sync with Urban Development Missions

### PRELIMS TEST

### POLITY - 4

- Judiciary
- Constitutional and Non-Constitutional Bodies
- Political Dynamics

## 1. The Union Judiciary

- Integrated judicial system
- Supreme Court
  - Composition
  - Independence of Supreme Court
  - Jurisdiction of SC
  - Judicial Review

## 2. High Court

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

- Appointment
- Powers

## 3. Constitutional & Non Constitutional Bodies

- Constitutional Bodies
- Finance Commission
  - Constitution
  - Functions
- Comptroller and Auditor General of India
- Attorney-General of India
- Appointment
  - Functions and Responsibilities
  - Other Constitutional Bodies
- All India Services

- ▶ Union Public Service Commission (UPSC)
- ▶ State Public Service Commission (SPSC)
- ▶ Joint State public Service Commission (JSPSC)
- National Commission For SCs
- National Commission For STs
- Special Officer for Linguistic Minority
- The Advocate General (Article 165)
- Non Constitutional
  - ▶ Special officer for linguistic Minorities
  - ▶ Central Information Commission
  - ▶ State Information Commission
  - ▶ Lokpal and Lok Ayukta
  - ▶ National Human Rights Commission
  - ▶ State Human Right Commission
  - ▶ CVC (Central Vigilance Commission)

#### 4. Services

- AIS

- State services
- Central services
- UPSC
- JPSC and SPSC

#### 5. Tribunals

- Need of tribunals
- Salient features of tribunals
- Composition
- Procedure
- Powers and functions
- Different types of tribunals: some examples

#### 6. Elections

- Adult franchise importance
- Constitutional provisions
- National and state party
- Types of elections
- Electoral reforms
- State funding
- Changes in Corporate Funding
- NOTA in Elections
- Nagaland Reservation in Urban Bodies
- E- Postal Ballot

### MAINS TEST

### POLITY - 4

#### UPSC SYLLABUS

- Structure, Organization and Functioning of the Judiciary: Supreme Court, High Court and other judicial bodies
- Statutory, regulatory and various quasi-judicial bodies.
- Appointment to various Constitutional Posts, Powers, Functions and Responsibilities of various Constitutional and Non-Constitutional Bodies.
- Salient features of the Representation of People's Act.

## 1. Constitutional Bodies

- Election Commission
- Union Public Service Commission
- State Public Service Commission
- Finance Commission
- 14<sup>th</sup> Finance Commission and Local Governments
  - 15<sup>th</sup> Finance commission: Issues with Term & References
  - State Finance Commission
- Law Commission
  - 268<sup>th</sup> Report of Law Commission on Bail Reforms
  - Law Commission report on Hate Speech
- Pay Commission
  - 7<sup>th</sup> Pay Commission
- National Commission for SCs
- National Commission for STs
- Special Officer for Linguistic Minorities
- Comptroller and Auditor General of India (CAG)
  - Functioning and Autonomy of CAG
- National Commission for Backward Classes
- Attorney General of India
- Advocate General of the State
- Co-operative Societies
- Tribunals
- Problems with Tribunals, Problems arising out of sidestepping the HC

## 2. Statutory, regulatory and various quasi- judicial bodies

- Rationalization Of Autonomous Bodies
- National Human Rights Commission
- National Commission for Women
- State Human Rights Commission
- Central Information Commission
- State Information Commission
- Central Vigilance Commission
- Preventive Vigilance
- Central Bureau of Investigation
- Autonomy of CBI
- Lokpal and Lokayuktas
- Issues related to the appointment of Lokpal
- Quasi judicial bodies
- NITI Aayog
  - NITI Aayog's Report on Rationalization of Centrally Sponsored Schemes (CSS)
  - Model Land leasing Law prepared by NITI Aayog

## 3. Structure, organization and functioning of the Judiciary

- Higher Judiciary Appointments
- Collegium system and issues.
- Collegium Vs. NJAC
- CJI removal
- Judicial Review
- Judicial Activism
- Judicial activism and judicial Overreach
- Judicial Accountability & RTI Act
- Public Interest Litigation
- Advocates (Amendment) Bill, 2017 Controversy

- National Litigation Policy
- Other Judicial Issues
- All India Judicial Services
- Proposal for National Court of Appeal
- Judicial Pendency
- Judicial Reforms
- Problems with Tribunals, Problems arising out of sidestepping the HC
- Alternate Dispute Redressal (ADR)
- Major Judgements of Supreme Court
  - RIGHT TO CONVERT - the Supreme Court's judgement regarding a person's right to choose a religion, Issue of Religious Conversion in India,
  - Reservation in promotion, Argument in favour of reservation in promotion, Argument against the reservation in promotions
  - Supreme Court judgement on Caste, Religion in Polls
  - Validity of Aadhaar but with certain caveats
  - Cauvery River Verdict
- Concept of Defamation in India
- Should the SC proceedings be live streamed?

#### 4. **Pressure groups and formal/informal associations and their role in the Polity**

- Pressure Groups
- Popular Struggles and Movements

- Rise of Popular movements

#### 5. **Election & The Representatives of People's Act**

- Political Parties
- Criminalisation of politics
- Freebies Politics in India
- Issues Related to the Working of Political Parties
- Inner Party Democracy
- Significance of Strong Opposition in Democracy
- Elections
- Role of Civil Society in Free and Fair Election
- What is Tactical Voting and Proportional Representation?
- What is Absentee Ballot?
- Voting Behaviour
- Election Laws
  - Representation of People (Amendment) Bill 2010- Voting rights to NRI
  - Introduction of NOTA
  - Bill on Right to Recall Legislators
  - Electoral reforms
  - Demand For A Hybrid Electoral System
  - Simultaneous Elections
  - About Paper Trail units
  - Election Funding (Electoral bonds)- Corporate funding laws
  - State Funding in elections
  - Women voices in elections

- ▶ Law Commission Report on Electoral Reforms
- ▶ Anti-Defection Law
- ▶ Anti-Defection Law: Is it time for reconsideration?

## 6. Development processes and the development industry

- The role of NGOs
- NGOs and Development/ Crackdown on NGOs
- Accountability and transparency in NGOs
- SHGs, various groups and associations, donors, charities, institutional and other stakeholders

## 7. Major Issues

- Dalit assertion and Politics of reservation
- Should India spend more on science or Social welfare?
- Protection of Women from Domestic Violence Act 2005
- Agrarian crisis: Issues in farmer economy
- Issues related to Social Media
- Media freedom and Responsible reporting
- Marital rape
- Section 377: Constitutionality Vs Morality
- Legalising Sports Betting In India

**PRELIMS TEST**

**POLITY REVISION TEST**  
(COMPLETE SYLLABUS)

**MAINS TEST**

**POLITY REVISION TEST**  
(COMPLETE SYLLABUS)



# HISTORY

## (SUB TOPIC LISTING)



## APPROACH CLASS (ANCIENT & MEDIEVAL HISTORY)

### PRELIMS TEST

### ANCIENT HISTORY

- Pre Historic Times,
- Indus Valley Civilization & Vedic Age,
- Buddhism & Jainism,
- Mauryans, Guptas and Harshavardhan, South India kingdoms and their Development.

### Ancient India

#### 1. Pre Historic Cultures In India

- Periodization of Indian Pre History
- Sources of Pre History
- Food Gathering Communities
- Food Producing Men
- Neolithic or the New Stone Age
- Iron Age
- Impact of Iron

#### 2. Pastoral and Farming Communities

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

#### 3. Indus Valley Civilization

- Major cities
- Town Planning
- Harappan Trade
- Agriculture

- Domestication of animals
- Crafts
- Religion
- Harappan Pottery
- Weights and Measures
- Script and Language
- Images
- Decline of Harappan Culture

#### 4. Vedic Society

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

#### 5. Pre Mauryan Period

- Formation of states

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

## 6. The Mauryan Empire

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

## 7. Post-Mauryan India (SC 200-AD 300)

- Society: Evolution of Jatis
- Sangam Texts-and Society
- Satavahanas and Other Indigenous Dynasties
- Foreign Dynasties
- Commercial Contacts with the Outside World
- Schools of Art

## 8. Growth of Jainism and Buddhism

- Jainism

- Buddhism

## 9. Imperial Guptas

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

## 10. Harshavardana

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

## 11. The Southern Dynasties

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

### PRELIMS TEST

### MEDIEVAL HISTORY

- Arabs Invasion in India Tripartite Struggle for Kannauj, Chola Empire Ghazni & Ghori, Delhi Sultanate, Mughals Marathas, Vijayanagar Empire, Bahamani Empire)

## MEDIEVAL INDIA

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

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

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

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

### 3. Struggle for Empire in North India

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

### 4. The Establishment of the North Indian Empire

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

### 5. Consolidation and Expansion of the Empire - Akbar

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

### 6. State and Government under Akbar

- Akbar's Concept of Suzerainty
- Structure of Government, Central and Provincial -the Vikalat, the Central Ministries, Provincial
- Government, District and Local Government
- The Working of Government - the Ruler, Land- Revenue System, the Dahsala System, the Mansabdari
- System and the Army

## 7. Akbar's Religious Views

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

## 8. The Deccan and the Mughals (Upto 1657)

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

## 9. Foreign Policy of the Mughals

- Akbar and the Uzbeks
- The Question of Qandahar and Relations with Iran
- Shah Jahan's Balkh Campaign

- Mughal - Persian Relations - the Last Phase

## 10. India in the First Half of the Seventeenth Century

- Jahangir's Accession - his Early Difficulties
- Territorial Consolidation and Expansion of the Empire - Mewar, East India and Kangra
- NurJahan, and the NurJahan 'Junta'
- The Rebellions of Shah Jahan, and the coup de main of Mahabat Khan
- Jahangir as a Ruler
- State and Religion in the First Half of the Seventeenth Century
- Shah Jahan - Consolidation and Expansion of the Empire
- Evolution of the Mughal Ruling Class and the Mansabdari System

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

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

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

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

## 13. Society-Structure and Growth

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

## 14. Economic Life-Patterns and Prospects

- Inland Trade
- Overseas Trade - Role of Foreign Trading
- Companies - Position of Indian Merchants Over-land Trade
- The Mughal State and Commerce
- Trend of India's Economy and

Prospects during the First Half of the Eighteenth Century

## 15. Religion, Fine Arts, Science and Technology

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

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

- Bahadur Shah I, and the Beginning of the Struggle
- For Wizarat - Rajput Affairs - Marathas and the
- Deccan - Accentuation of the Party Struggle
- Struggle for 'New' Wizarat: Zulfiqar Khan and Jahandar Shah (1712-13)
- The Saiyid Brothers' Struggle for 'New' Wizarat
- The Saiyid 'New' Wizarat
- The Wizarat of M. Amin Khan and Nizam-ul-Mulk
- Rise of Regional States, Beginning of Foreign Invasions of India (1725-48)

## 17. The Maratha Bid for Supremacy

- The Marathas and their Policy of Expansion
- The Marathas and Nizam-ul-Mulk

- The Maratha Advance into Gujarat and Malwa
- The Maratha Advance into Doab and Punjab:
  - First Phase (1741-52); Second Phase (1752-61);
- Third Battle of Panipat

## APPROACH CLASS (CULTURE + MODERN INDIA)

### MAINS TEST

### INDIAN ART & CULTURE

#### UPSC SYLLABUS

- Indian culture will cover the salient aspects of Art Forms, Literature and Architecture from ancient to modern times.

## 1. Culture & Heritage of India

- Aims and objectives of performing arts and their development through various stages.
- Utility of performing arts during the ancient and the medieval period.
- Appreciate the contribution of classical dances, folk music as well as folk dances in Indian culture and Challenges faced by performing Arts
- Development of drama through various phases in India and recognize the contribution of folk theatre
- Examine the importance of the three art forms in the development of human personality.
- Religious and secular Art in India

## 2. Music

- Evolution of Indian Music

- Contribution of Some personalities : Amir Khusro, Mohammad Shah
- Hindustani Music evolution, features and impact
- Carnatic Music evolution, features and impact
- Hindustani and Carnatic music differences and similarities
- Regional music and its impact
- Modern Music

## 3. Dance

- Tracing Evolution of Dance (Rig Veda, Harappa, Nataraja)
- Classical Dances of India, their evolution and Theme
- Well known Classical dancers of India.
- Themes in Indian folk dances

## 4. Drama

- Introduction ( Natyashastra)



- Evolution of Drama in India
- Various texts relating to Drama period wise (ex Mahabhasya, Mrichhakatika)
- Famous Modern Dramas and Dramatists.

## 5. Languages & Literature

- Vedic Literature
- Tamil language and Sangam Literature
- Classical languages : Evolution & impact on society
- Trends in Medieval Literature
- Modern Indian Literature

## 6. Architecture In India

- Architectural Style of Harappan Civilisation
- Influence of Buddhism and Jainism on Indian architecture
- Stupas, Chaityas and Viharas
- Impact of Persian and Greek invasion on Indian culture
- Mauryan Architecture (322-182 BC)
- Post Mauryan Architecture
- Gandhara and Mathura school of Art
- Cultural development during Gupta Age
- Temple Architecture and Sculptures
  - ▶ Nagara and Dravida Styles
  - ▶ Early Temples

- ▶ Rock Cut temples
- ▶ Monolithic Temples
- ▶ Free Standing Temples
- ▶ Pallavas as great temple builders
- ▶ Emergence of Nalanda as centre of learning

- Medieval Period architecture
  - ▶ Delhi Sultanate
  - ▶ Regional Kingdoms ( Mandu, Jaunpur etc)
  - ▶ Vijaynagara Architecture
  - ▶ Mughal Architecture
  - ▶ Evolution of temple construction in India
  - ▶ Indo Islamic Architecture
- Colonial Architecture
- Utility of Architectural structures today and in Past
- Conservation and Preservation of Architectural Structures
- Spread of Indian Culture to Southeast Asia

## 7. Bronze Sculptures In India

- Harappan "Dancing Girl"
- Jain Tirthankaras Bronze Images
- Buddha bronze Images (ex Guptas and Vakatakas)
- Pala school of Art ( Bronze images, Manuscripts)
- Pallava Bronze Images
- Chola Bronzes
- Nataraja

## 8. Paintings In India

- Prehistoric Rock Paintings
- Ancient Period
  - Murals Paintings
  - Bagh Caves
  - Sittanavasal Paintings
  - Armamalai caves
- Medieval Period
  - Pala school of miniature paintings
  - Mughal miniature paintings (synthesis of Indian and Persian style)
  - Role of Akbar and his successors
  - Development of Pahari, Rajput and Deccan Paintings
  - Theme of paintings in Medieval period
- Modern Period
  - Bengal school of Art
  - Renaissance or revivalist painting
  - Madras School of Art
- Decorative Art
  - Madhubani
  - Kalamkari
  - Kalighat
  - Warli
  - Pattachitra
  - Theme of decorative paintings in India
- Theatre Forms of India
  - Significance of Traditional folk theatre in India
  - Different forms of traditional folk theatre in India
  - Sanskrit theatre in India
  - Challenges faced by theatre in India
- Puppet forms in India
  - Themes of puppetry in India
  - Forms of Puppetry
- Religious Philosophies
  - Buddhism and its impact
  - Jainism and its impact
  - Sufism and its impact
  - Vedanta Philosophy
  - Bhakti Traditions

### PRELIMS TEST

### INDIAN ART & CULTURE

- VISUAL ART + PERFORMING ARTS + RELIGIONS + LANGUAGES + LITERATURE + INSTITUTIONS

## 1. Visual Art

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

## 2. Architecture in Ancient India



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

### 3. Indo-Islamic Architecture

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

### 4. Modern Architecture

- European Influence
- Indo-Saracenic Architecture

- Post-Independence Period

### 5. Indian Paintings

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

### 6. Pottery Tradition in India

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

### 7. Music in India

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

### 8. Dances in India

- Concept of Dance in India
- Concept of Ashta Nayika
- Eight Classical Dance Forms in India

- Folk Dances
- Modern Dances

## 9. Martial Arts in India

- Genesis of Martial Arts

## PRELIMS TEST

## MODERN HISTORY-1

- Modern India (1757 - 1857)

### Modern India

## 1. The Advent of Europeans In India

- The Portuguese in India
  - De Almeida
  - Albuquerque
  - Causes of failure of Portuguese empire in India
- The Dutch in India
- The Danes in India
- The English
- The French
- Anglo-French Rivalry
  - First Carnatic War
  - Rise of the Hyderabad State
  - The Second Carnatic War
  - The Third Carnatic War
  - Causes of English Success

## 2. The English in Bengal from 1757 to 1772

- Black-hole Tragedy
- Battle of Plassey
- Mir Jafar
- Deposition of Mir Jafar
- Battle of Buxar
- Mir Kasim

## 3. The Revolt of 1857

- Economic Causes
- Political Causes
- Administrative Causes
- Socio -Religious Causes
- Influence of Outside Events
- Discontent Among Sepoy's
- Beginning and Spread
- Leaders of the Revolt
- Suppression of Revolt
- Causes of Failure of Revolt
- Hindu-Muslim Unity Factor
- Nature of the Revolt
- Consequences

## 4. Social reforms in India

- Raja Ram Mohan Roy
- Swami Vivekananda
- Swami Dayananda Saraswati
- Ishwar Chandra Vidyasagar
- Jyotiba Phule
- Dr. Bhimrao Ramji Ambedkar
- Henry Vivian Derozio
- Debendranath Tagore
- Keshab Chandra Sen
- Sri Ramakrishna Paramhansa
- Mahadev Govind Ranade
- Theosophical Society And Annie Besant

- Syed Ahmad Khan
- Parsi Religious Reform Association
- Baba Dayal Das
- Pandita Ramabai
- Sarojini Naidu

## 5. Development of Indian Press

- Early Regulations on Press
- Struggle by Early Nationalists to Secure Press Freedom
- Vernacular Press Act, 1878
- During and After the First World War
- During the Second World War
- After Independence

## 6. Development of Education

- Charter Act of 1813
- Orientalist-Anglicism Controversy
- Efforts of Thomson
- Wood's Des-patch (1854) Hunter Education Commission (1882-83)
- Indian Universities Act, 1904
- Government Resolution on Education Policy—1913
- Saddler University Commission (1917-19)
- Education Under Dyarchy
- Hartog Committee (1929)

- Wardha Scheme of Basic Education (1937)
- Sergeant Plan of Education
- Kothari Education Commission (1964-66)
- Development of Vernacular Education
- Development of Technical Education
- Evaluation of British Policy on Education

## 7. Struggle by the Masses

- Tribal Movements
- Bhil Uprising
- Kol Uprising
- Santhal Rebellion
- Jaintia and Garo Rebellion
- Rampa Rebellion
- Munda Rebellion
- Khonda Dora Uprisings
- Tana Bhagat Movement
- Peasant Movements
- Champaran Satyagraha
- Kheda Peasant Struggle
- Bardoli Movement
- Moplah Rebellion
- Tebhaga Movement
- Telangana Movement

### PRELIMS TEST

### MODERN HISTORY-2

- Modern India (1858 - 1947)

## 1. Impact of British Administration

- Industrialization—Ruin of Artisans and Handicrafts men
- Impoverishment of Peasantry

- Emergence of New Land Relations, Ruin of Old Zamindars
- Stagnation and Deterioration of Agriculture
- Commercialization of Indian Agriculture
- Development of Modern Industry
- Rise of Indian Bourgeoisie
- Economic Drain
- Famine and Poverty
- Nationalist Critique of Colonial Economy
- Abolition of the Dual System
- Zamindari system
- Ryotwari system
- Mahalwari system

## 2. Administrative Changes After 1857

- Administration - Central, Provincial, Local
- Changes in the Army
- Public Services
- Princely States
- Administrative Policies
- Foreign Policy

## 3. Revolutionary Movements

- The Revolutionary Movement
- Reasons for Failure

## 4. The Early Phase of the Freedom Struggle (1900–1915)

- Partition of Bengal (1905)
- Swadeshi Movement (1905)

- Origin of the Muslim League (1906)
- Resolution of Swaraj (1906)
- Surat Session: Split in Congress (1907)
- Morley-Minto Reforms (1909)

## 5. Middle Phase of the Freedom Struggle (1915–1930)

- World War I-Reforms and Agitation
- Home Rule Movement (1915–1916)
- Lucknow Pact (1916)
- August Declaration of 1917
- Beginning of the Gandhian Era
- The Government of India Act (1919)
- Rowlatt Act (1919)
- Jallianwala Bagh Massacre (13 April 1919)
- Khilafat Movement (1920)
- Non-Cooperation Movement (1920–1922)
- Chauri-Chaura Incident (1922)
- Trade Union Movement
- Communist Movement in India
- Swaraj Party (1922)
- Muddiman Committee (1924)
- Simon Commission (1927)
- Butler Committee (1927)
- Delhi Muslim Proposal (1927)
- Nehru Report (1928)
- All Parties Muslim Conference (1929)
- Jinnah's Fourteen Points (1929)
- Lahore Session (1929)

- Allahabad Address (1930)

## 6. Closer to Freedom (1930-1947)

- Civil Disobedience Movement (1930)
- The First Round Table Conference (12 November 1930)
- Gandhi-Irwin Pact
- Second Round-Table Conference (12 September 1931)
- Civil Disobedience Movement (Second-Phase)
- Third Round Table Conference (17 November 1932)
- The Communal Award (1932)
- Poona Pact (1932)
- The Government of India Act (1935)
- World War II and the Indian Political Situation
- Resignation of Congress Ministers (1939)
- Poona Resolution and Conditional Support to Britain (1941)
- August Offer of 1940
- The Individual Civil Disobedience
- Two-Nation Theory
- Demand for Pakistan (1942)
- Cripps Mission (March 1942)
- Quit India Movement (1942–1945)
- The CR Formula (1944)
- Gandhi-Jinnah Talks (1944)
- Desai-Liaquat Pact (1945)

- Wavell Plan and Simla Conference (1945)
- Provincial and General Elections of 1945
- Cabinet Mission Plan (1946)
- Azad Hind Fauj (Indian National Army)
- Direct Action Campaign (1946)
- Interim-Government (1946)
- Mountbatten Plan (1947)
- India Wins Freedom
- Indian Independence Act (1947)
- Partition of India

## 7. Governor Generals During British India

- Robert Clive (1754-1767)
- Lord Warren Hastings (1773-1785)
- Lord Cornwallis (1786-1793)
- Sir John Shore (1793-1798)
- Lord Arthur Wellesley (1798-1805)
- Lord George Barlow (1805-1807)
- Lord Minto-I (1807-1813)
- Francis Rawdon Hastings (1813-1823): (Marques of Hastings)
- Lord Amherst (1823-28)
- Lord William Bentinck (1828-1835)
- Sir Charles Metcalfe (1835-1836)
- Lord Auckland (1836-1842)
- Lord Ellenborough (1842-1844)
- Lord Hardinge-I (1844-1848)
- Lord Dalhousie (1848-1856 great imperialist and colonist)

- Lord Canning (1856-1857 and 1858-1862)
- Lord Elgin-I (1862-1863)
- Lord Lawrence (1862-1869)
- Lord Mayo (1869-1872)
- Lord North Brook (1872-1876)
- Lord Lytton (1876-1880)
- Lord Rippon (1880-1884)
- Lord Dufferin (1884-1888)
- Lord Lansdowne (1888-1894)
- Lord Elgin-II (1894-1905)
- Lord Curzon (1899-1905)
- Lord Minto-II (1905-1910)
- Lord Hardinge-11 (1910-1916)
- Lord Chelmsford (1916-1921)
- Lord Reading (1921-1926)
- Lord Irwin (1926-1931)
- Lord Willingdon (1931-1936)
- Lord Linlithgow (1936-1944)
- Lord Wavell (1944-1947)
- Lord Mountbatten (1947-1948)

## MAINS TEST

## MODERN HISTORY-1

### UPSC SYLLABUS

- Modern Indian history from about the middle of the eighteenth century until the present- significant events, personalities, issues, etc.

### 1. Before European Penetration in India

- Later Mughals
- Disintegration of Mughal Empire
- Rise of Regional States
  - Bengal
  - Hyderabad and Carnatic
  - Awadh
  - Mysore
  - Kerala
  - The Sikhs
  - Rajput states and Jats
  - Marathas
- Rise and fall of Marathas
- Socio and Economic condition of people in 18<sup>th</sup> Century
- Cultural life of people in 18<sup>th</sup> Century
- Scientific outlook in 18<sup>th</sup> Century

### 2. Beginning of European Penetration in India

- Trade between India and Europe
- Portuguese Domination
- Spice trade of Dutch
- British trade expansion in India and its effect on India from 1600-1744
- Anglo-French Struggle and Subversion of Indian political power

### 3. Expansion of British Empire in India 1756- 1818

- British expansion in Bengal
- Importance of Battle of Plassey
- Clash between Mir Qasim and East India Company



- Dual system of administration in Bengal
- Wars under Warren Hastings and Cornwallis
- Expansion under Lord Wellesley
- Subsidiary Alliance policy of Wellesley
- Expansion under Cornwallis
- Overpowering of Maratha Confederacy

#### 4. Consolidation under British Rule, 1818- 1857

- Conquest of Sind
- Conquest of Punjab
- Policy of Annexation of Dalhousie

#### 5. Structure of British Rule in India

- End of Dual Government and direct administration of Bengal (From 1772)
- Relations between East India Company and British state between 1765-1833
- Regulating Act of 1773 and Pitts India Act
- Charter Act of 1813 and 1833

#### 6. British Economic Policy in India from 1757- 1857

- Commercial Policy of British from 1757-1857
- Effect of Battle of Plassey on Indian Trade
- Effect of Industrial Revolution on Economic relations with India

- Factors that Make Britain Favorable for Industrial Revolution
- Drain of Wealth
- Development of Means of Transport and communication and industries
- Land Revenue Policy of British (Permanent, Ryotwari, Mahalwari)
- Effect of Land Revenue Policy on Agrarian relations in India

#### 7. Administrative Policy of British

- Civil Service in India
- Role of Army
- Police
- Judicial organization during British Rule
- Introduction of Rule of Law
- Equality Before Law

#### 8. Social and Cultural Policy of British

- Modern Thoughts that influenced British Policies in India
- Conservatives and Radicals
- Policy of partial modernization
- Humanitarian Measures (abolition of sati etc)
- Spread of modern education

#### 9. Social and Religious Reforms in 19<sup>th</sup> Century

- Social and Religious reforms in 19<sup>th</sup> Century
- Role of Raja Ram Mohan Roy in social and religious regeneration

- Radical trend between 1820 and 1830 (Derozio)
- Ishwar Chandra VidyaSagar (Girl education, child marriage, widow remarriage and caste hierarchy)
- Why impact of western Ideas felt more in Bengal than in Western India
- Fight Against Caste System, Untouchability and Widow remarriage, Child marriage
- Parsi Reforms
- Sikh Reforms

- Role of women
- State of Education in India during 19<sup>th</sup> Century

## 10. Revolt of 1857

- Reasons for revolt of 1857
- Participation in Revolt
- Spread of Revolt
- Response of British
- Impact of Revolt of 1857
- Factors responsible for failure of Revolt of 1857

## MAINS TEST

## MODERN HISTORY-2

### UPSC SYLLABUS

- The Freedom Struggle - its various stages and important contributors /contributions from different parts of the country.

### 1. Administrative Changes Post Revolt of 1857

- Government of India Act of 1858
- Indian council Act of 1861
- Role of Mayo, Lytton and Ripon
- Promotion of Local bodies and role of Ripon
- Changes in Army
- Changed Relationship with Princely States
- Reactionary policy of British
- Divide and Rule
- Restrictions on Press
- Attitude towards social reform
- Hostility towards educated Indians
- Labor Legislations

### 2. Economic Impact of British Rule

- Ruin of Traditional Economy
- Impoverishment of peasantry
- Ruin of old zamindars
- Rise of new Landlordism
- Deterioration of Agriculture
- Development of modern industries
- Rise of new social class in India
- Poverty and Famines

### 3. Nationalist Movement (1858-1905)

- Factors responsible for Rise of Nationalism
- Predecessors of Indian National Congress



- Indian National Congress
- Constitutional Reforms by Moderates
- Economic Reforms by Moderates
- Administrative and other reforms by Moderates
- Defence of Civil rights
- Method of Constitutional agitation of Moderates
- British Response
- Evaluation of role of moderates

## 4. Social and Religious Reform after 1858

- Factors responsible for Religious reform of 19<sup>th</sup> Century
- Religious reforms in Maharashtra
- Swami Dayanand and AryaSamaj
- Aligarh School of Thought
- Reform among Parsis
- Limitations of Religious Reform Movement
- Movement to Improve position of Women
- Struggle Against Caste
- Effect of National Awakening on social reforms
- Social Legislations in the 19<sup>th</sup> and 20<sup>th</sup> Century

## 5. Nationalist Movement (1905-1918)

- Growth of militant Nationalism
- How militant nationalists different from moderates
- Swadeshi and Boycott Movement and participation from different sections
- Women Participation before Gandhi

- Growth of Revolutionary Terrorism
- Indian National Congress between 1905-1914
- Morley Minto Reforms
- Muslim league and growth of communalism
- British used Muslim league to fight rising nationalism
- Nationalist and World War I
- Home rule league movement
- Revolutionary Organization like Ghadar Party
- Lucknow session of 1916

## 6. Struggle for Swaraj

- Post world war scenario favorable for Nationalism
- Impact of Russian Revolution on National Movement
- Montague Chelmsford reforms
- Rowlatt Act
- Arrival of Mahatma Gandhi and his ideas
- Champaran Satyagraha, Ahmedabad Mill strike
- Satyagraha against Rowlatt Act
- Jallianwala Bagh Massacre
- Khilafat movement and Non cooperation movement
- Impact of Chauri Chaura Incident
- Role of Swarajists
- State peoples conference movements
- Rise of Socialism within congress
- Peasant, Tribal and workers agitation
- Socialist turn to Revolutionary terrorism

- Response of British to revolutionary terrorism
- Boycott of Simon Commission
- Nehru Report
- Significance of Poorna Swaraj Resolution
- Dandi March
- Programme of CDM (1930-34) and British response
- First Round table conference
- Gandhi-Irwin Pact and Second RTC
- Second phase of CDM
- Women Participation after coming of Mahatma Gandhi
- Communal Award
- Poona Pact and Mahatma Gandhi fast unto death
- Mahatma Gandhi and B. R. Ambedkar approach to caste and untouchability
- Third RTC

## 7. Nationalist Politics (1935-1939)

- Government of India Act, 1935
- Formation of Congress Ministries
- Growth of Socialist Ideas
- Congress and International Affairs

## 8. Towards Independence

- National Movement in Princely States

- Growth of Communalism
- National movement and World War II
- August Offer, 1940
- Individual civil disobedience movement (1940-41)
- Cripps Mission and Reasons for Failure
- Quit India Movement and British Response
- Women participation in end stages of freedom struggle
- Azad Hind Fauj and SC Bose
- INA trials
- Wavell Plan and Shimla Conference
- 1945-46 elections and the communal divide
- RIN (Royal Indian Navy Mutiny)
- Labour and peasant Unrest all over Country
- Reasons Behind British Support for India's demand for freedom
- Cabinet Mission
- Towards Partition and Independence
- Rise of Muslim communalism and partition of India
- The Indian Independence Act July, 1947
- Role of Various Leaders
- Factors leading to Partition
- Why congress accepted partition of India?

**PRELIMS TEST**

**HISTORY REVISION TEST**

(COMPLETE SYLLABUS)

**MAINS TEST**

**HISTORY REVISION TEST**

(COMPLETE SYLLABUS)

# **ECONOMY**

## **(SUB TOPIC LISTING)**

## APPROACH CLASS (ECONOMY)

### PRELIMS TEST

### ECONOMY - 1

- Fundamental of Economy (NCERT);
- Micro economy, Macro economy;
- Planning & National Income Accounting of India
- Inflation Mobilization of resources, growth, development and employment

#### 1. Micro economy

- Demand and supply
- Choices, preferences, utilities
- Normal, inferior, Luxury, giffen goods
- Complement, substitute, neutral goods
- Elasticity of demand
- Types of input market
- Types of output market
- General equilibrium
- Market failure, Externalities
- Welfare Economy, Public goods

#### 2. Macro economy

- Aggregate Demand and Aggregate Supply
- Concepts of National Income
- Calculation of National Income
- Purchasing Power Parity on GDP
- Nominal & Real GDP, GDP deflator etc.
- Gini Coefficient and Lorenz Curve
- Inflation: Concept, Causes, Control
- Inflation Indices

- Inflation: Impact on Economy, various sectors, etc.
- Inflation and unemployment

#### 3. National Income

- Concepts of National Income
- Calculation of National Income
- Latest India's National Income Estimates
- New Series of National Statistics (Base Year 2011-12)
- Annual Estimates of Expenditures on GDP
- Per Capita Income
- Purchasing Power Parity
- Lorenz Curve, Philip's Curve
- Gini Coefficient

#### 4. Planning

- Objectives – Major Objective of Planning
- Planning History
- Regional and National Planning
- Imperative and Indicative Planning
- Visvesvaraya Plan, Gandhian Plan, FICCI Proposal, Congress

- Plan, Bombay Plan
- Planning Commission and National Development Council (NDC)
- Central Planning – 5 Year Plans, 20 Point Program, MPLADS
- Decentralizes Planning
- Analysis of 5 Year Plans
- 12th FYP – Targets – Economic Growth, Poverty and Unemployment, Education, Health, Infrastructure, Environment and Sustainability, Service Delivery
- NITI Aayog and its work

## MAINS TEST

## ECONOMY - 1

### UPSC SYLLABUS

- Indian Economy and issues relating to planning, mobilization of resources, growth, development and employment.
- Inclusive growth and issues arising from it.
- Human development, Sustainable development

### 1. Indian Economy and issues relating to Planning

- Role and objectives of Indian Planning
- Planning Experience at the Centre and State level
- Regulatory Role of the State
- Development Strategy in India's Five Year Plan
- Mahalanobis' Four-Sector Growth Model and Employment Generation
- Tackling the Problems of Poverty and Unemployment
- Vital Role of the Public Sector
- Analysis of India's Economic Performance in Development Planning
- Trends in Saving and Capital Formation since Independence
- Role of NITI Aayog in Cooperative federalism
- Resource Mobilization
- Types of Resources: Physical and Financial
- Need for Resource Mobilization: Police State and Democratic Welfare State policies
- Sources of Resource Mobilization: Public Sector and Private Sector
- Taxation and Mobilization of Resources for Economic Growth
- Direct Taxes and Mobilisation of Resources
- Agricultural Taxation & Resource Mobilisation
- Role of Indirect Taxes in Resource Mobilisation
- Mobilization of financial resources through Government Revenues
- Role of Public Debt in resource mobilization and effects: Market borrowing, loans, grants, etc.

- Role of Fiscal and Monetary policies in resource mobilization
- Role of Foreign investment in resource mobilization: Desirability and Consequences
- Multi-lateral agencies and resource mobilization
- Challenges to Resource Mobilization

## 2. Inclusive Growth and issues arising from it

- Meaning and concept of Inclusion
- India's experience of Inclusion
- Why India's growth is not inclusive?: Rural economy based growth, Need of Sustainable agriculture, food security and resilience for growth
- What are the solutions?
- Inclusion process through Social sector
- Flagship schemes and Ground realities
- Public distribution schemes: Can it be the way to inclusive growth
- Financial inclusion as an instrument of inclusive growth
- Poverty Alleviation and Employment Generation as a

strategy for inclusive growth

- Social sector development as an instrument for inclusive growth
- Public private partnership for inclusive growth
- Industrial Integration for inclusive growth
- Sectoral and regional diversification as a tool for inclusive growth

## 3. Poverty

- Committees
- Poverty Line
- Multi-dimensional poverty
- Poverty Alleviation and Employment
- Generation as a strategy

## 4. Human development

- Dimensions of Human development
- Measuring Human Development
- India's Performance in HDI
- Roadblocks in India's Human Development
- Steps taken to improve Human Development in India

## PRELIMS TEST

## ECONOMY - 2

- Money, Banking, RBI and Monetary Policy
- Public Finance, Fiscal policy & Government Budgeting

## 1. Monetary Policy in India

- Instruments of Monetary Policy
- Monetary policy in Pre-Reform Era (1948 – 1991)

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

- Inflation Targeting

## 2. Government Budgeting/ Deficits

- Budget
- Plan and Non Plan Expenditure
- Revenue, Nonrevenue
- Receipts, Revenue Receipts, Tax Revenue Receipts, Non-Tax Revenue Receipts
- Revenue Expenditure
- Revenue Deficit, Fiscal Deficit, Primary Deficit
- Deficit and Surplus Budget

- Deficit Financing

## 3. Fiscal Policy

- Tax Structure in India
- Tax – Direct Tax, Indirect Tax
- Methods of Taxation – Progressive, Regressive
- Proportional
- Value Added Tax – VAT in India
- Goods and Services Tax – GST, GST Council
- Service Tax
- DTC – Direct Tax Code

## MAINS TEST

## ECONOMY - 2

### UPSC SYLLABUS

- Money, Banking, RBI and Monetary Policy
- Public Finance, Fiscal policy & Government Budgeting

## 1. Government Budgeting

- Budget terminology
- Types of budget
- Features of Outcome budgeting, Gender Budgeting
- Benefits of budgeting
- Flaws in budgeting process
- Merger of Railway and General Budget
- Budget analysis

## 2. Fiscal Policy

- Fiscal Concept and Fiscal Policy in India
- Government Revenues & Spending Trends

- Impact of deficits on economic growth
- Twin Balance Sheet syndrome

## 3. Taxation

- Objectives and Principles of Taxation
- Taxation for Mobilization of Resources
- Taxation System in India
- Tax Reforms
- GST and its impact on different sectors
- Subsidies and its Impact

## 4. Monetary Policy in India



- Instruments of Monetary Policy
- Monetary policy in Pre-Reform Era (1948 – 1991)
- Monetary Policy in Post-Reform Era (Since – 1991)
- Urjit Patel Committee Report
- Monetary Policy Committee and Inflation Targeting

## 5. Financial system

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

## 6. Banking

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

## CONTEMPORARY ISSUES

### Budget & Taxation

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>▶ Low Tax to GDP Ratio: Reasons and Suggestions</li> <li>▶ Public Debt Management Cell</li> <li>▶ IBBI and Insolvency Rules</li> <li>▶ Ponzi scheme and Issues</li> <li>▶ Fat tax: Concept Analysis</li> <li>▶ Concept of Municipal Bonds</li> <li>▶ Lower Taxes, Higher Compliance: Implication on Economy</li> <li>▶ How Shell Companies are used in Black Money?</li> </ul> | <ul style="list-style-type: none"> <li>▶ Offshore Investments in Tax Havens</li> <li>▶ Concept of Google Tax and its Implications</li> <li>▶ Sunset Clause and its Significance in Policies</li> <li>▶ Government Rule on Capital Gains Tax</li> <li>▶ Credit Rating Agencies and their Implications</li> <li>▶ Fugitive Economic Offenders Bill</li> </ul> |
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### Banking & Finance

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>▶ Concept of Wilfull Defaulter Indian Banking System</li> <li>▶ Concept of Shadow Banking</li> </ul> | <ul style="list-style-type: none"> <li>▶ Non-Performing Assets</li> <li>▶ Marginal Cost of Funds based Lending Rate</li> </ul> |
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- |  |  |
|--|--|
| <ul style="list-style-type: none"><li>▶ Unified Payment Interface</li><li>▶ India Post Payments Bank</li><li>▶ Differentiated Bank Licenses</li><li>▶ Digital Payments Scenario</li><li>▶ Monetary Policy Committee</li><li>▶ Report of Working Group on Development of Corporate Bond Market in India</li><li>▶ IL &amp; FS issue and Corporate Governance in India</li><li>▶ SEBI reforms on Corporate Governance – Uday Kotak Committee</li></ul> | <ul style="list-style-type: none"><li>▶ SEBI and Commodity markets in India</li><li>▶ Concept of Crypto-Currencies</li><li>▶ Crypto Currencies Come Under SEBI Lens</li><li>▶ Corporate Governance: Role of SEBI</li><li>▶ Peer to Peer Lending Firms</li><li>▶ Bank Recapitalization Program</li><li>▶ Lessons on NPA from Global Banks</li><li>▶ Need of Regulatory Regime for Alternative Investment Fund</li><li>▶ Name and Shame Willful Defaulters</li></ul> |
|--|--|

## PRELIMS TEST

## ECONOMY - 3

- Sectors of Economy (Agriculture, Industry, Services, and External sectors); Recent Developments

### 1. Agriculture

- Agricultural Inputs: Seeds,
- Credit structure, Irrigation, etc.
- Minimum Support Price
- Agricultural Subsidies
- Crop Insurance in India
- Agriculture land reforms
- Agricultural Outputs: Infrastructure, Marketing reforms, Harvesting, etc
- Agriculture Price Policy (APP) in India
- Agri-Market Infrastructure Fund
- Agriculture Extension
- FCI, NABARD, etc.
- Food security in India, Public Distribution System
- Food processing, Mega Food Park, other dimensions

### 2. Industry

- Department for Promotion of Industry and Internal Trade
- National Mission on Government e-Market (GeM) portal
- Integrated Scheme for Development of Silk
- Industry” for sericulture
- North East Industrial Development Scheme (NEIDS)
- Government Redefines MSME
- Udyam Sangam-2018 inauguration
- ‘One District One Product’ Summit inaugurated
- Pharma Promotion Tax Exempt: Tribunal
- Cabinet Identified Champion Services Sectors
- Purchasing Managers’ Index (PMI)

- Logistics Portal
- National Entrepreneurship Awards 2018
- Incredible India Tourist Facilitator Certification

### 3. Infrastructure

- Western Dedicated Freight Corridor (WDFC)
- First Freight Village
- Bidder Information Management Systems (BIMS)
- Bhoomi Rashi - PFMS linkage
- National E-Mobility Programme
- Draft National Automotive Policy
- Advanced Motor Fuels Technology Collaboration Programme
- Railways CONCOR begins coastal operations
- Air Sewa - 2.0
- Airports Privatization
- Drone regulations developed by Ministry of Civil Aviation
- Water Aerodrome
- NABH (Nextgen Airports for Bharat) Nirman Initiative
- Bansagar Canal Project
- Jal Marg Vikas Project
- National Waterways projects in North Eastern Region (NER)
- Declaration of irrigation projects as National Projects
- Portal launched for real-time information on National
- Waterways
- Revised PPP Port Concessions
- Solar Charkha Mission

- Patratu Super Thermal Power Plant
- National Energy Storage Mission
- Kudankulam Nuclear Power Plant (KNPP)
- Srinagar - Alusteng - Drass - Kargil – Leh
- Transmission System
- Development of renewable energy
- Additional Strategic Petroleum Reserves established
- TRAI Interconnect Rule
- The TRAI launches integration & availability of TRAI Mobile Apps on UMANG platform
- Cabinet Approves Easing of Spectrum Cap
- Strategic Investment Fund under NIIF
- O-SMART scheme

### 4. Services

- Size and Structure of the Service sector
- Champion Services Sectors: Education, Tourism & Hospitality, Information Technology and ITES, Transport and Logistics, Financial, Medical, etc.
- Trade in Services Sector
- IPR issues in India, recent trends

### 5. External Sector

- Balance of Payments and Foreign Capital
- Trade structure, Balance of Trade
- Exchange rate regimes: types, features

- India's Exchange rate system
- Depreciation, Appreciation, Devaluation, Revaluation
- Current Account Convertibility and Capital Account Convertibility
- NEER and REER
- Forex Reserves, External Debt
- Impact of Globalization on Indian Economy
- Types of trade agreements (PTA, FTA, CEPA, CECA etc.)

## 6. Foreign trade & International Organizations

- Trends in International Trade
- Foreign Trade Policy
- Balance of Payments and Foreign Capital

- Impact of Globalization on Indian Economy
- International Monetary Fund (IMF)
- World Trade Organisation (WTO)
- World Bank Group
- AIIB and NDB

## 7. Recent Development

- G7 corporate tax
- National Monetisation Pipeline
- PM Gati Shakti Master Plan
- Credit Rating Agencies: Credibility and Accountability
- Recent trends and measures of banking Reforms
- Circular Economy
- Financial Inclusion Index

## MAINS TEST

## ECONOMY - 3

### UPSC SYLLABUS

- Major crops cropping patterns in various parts of the country, different types of irrigation and irrigation systems storage, transport and marketing of agricultural produce and issues and related constraints; e-technology in the aid of farmers.
- Issues related to direct and indirect farm subsidies and minimum support prices; Public Distribution System- objectives, functioning, limitations, revamping; issues of buffer stocks and food security; Technology missions; economics of animal-rearing.
- Food processing and related industries in India- scope and significance, location, upstream and downstream requirements, supply chain management.
- Land reforms in India.

## 1. Role of Agriculture in Indian Economy

## 2. Land resource

- Land-use pattern and Land capability classification
- Causes and Impact of Land Degradation

- Sustainable Land Management
- Steps taken by GOI

### 3. Land Reforms

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

### 4. Agriculture Finance

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

### 5. Agricultural Credit Institutions

- Multi Agency Approach
- Commercial Bank
- Lead Bank Scheme
- Regional Rural Banks
- National Bank for Agriculture and Rural Development (NABARD)
- Reserve Bank of India
- Kisan Credit Card Scheme
- Bank Linkage Programme
- Rural Infrastructure Development Fund (RIDF)
- Government Policy For

Agricultural Credit

- Farmers Service Societies (FSS)

### 6. Crop Insurance in India

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

### 7. Agriculture Marketing

- Process of Agricultural Marketing in India
- Structure of Agricultural Marketing in India
- Importance of Proper Agriculture Marketing
- Government Measures to Improve Agricultural Marketing in India
- Analysis of APMC Act

### 8. Subsidies

- Objectives of subsidies
- Transfer of resources from gainers from economic policies to losers from economic policies
- Farm Subsidies
- Fertilizer subsidies
- Subsidy on power
- Subsidy on irrigation
- Rationale of Minimum Support Price
- Impact of MSP on inflation
- Public Distribution System: Objectives, functioning, limitations,, revamping, evolution from universal PDS to targeted

PDS, Targeted PDS, a critical analysis of cost and benefit of PDS

- Buffer Stock policy and government's intervention in food market to keep prices under reasonable limits to help consumers
- Food Security bill, questions of resource mobilization for the FSB, criticism of the FSB
- Important questions on the future of subsidies

## 9. Agricultural Revolutions in India

- Green Revolution
- White Revolution – Operation Flood

- Yellow Revolution
- Blue Revolution
- Golden Fibre Revolution: Jute

## 10. Food Processing

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

## MAINS TEST

## ECONOMY - 4

### UPSC SYLLABUS

- Effects of liberalization on the economy, changes in industrial policy and their effects on industrial growth.
- Infrastructure: Energy, Ports, Roads, Airports, Railways etc.
- Investment models.

## 1. Industrial Policy and Industrial Development: Main Issues

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

- Phases of Industrial development since independence

## 2. Main features of Industrial development in India

- Roles of private sector and public sector, Investment in the industrial sector, employment, productivity, profit etc.
- Strategies for disinvestment and privatization

- Role of Small, Medium and Micro enterprises, Government Policy, main problems, effects of globalization
- New Manufacturing Policy
- Industrial disbursal and Industrial corridors
- SEZs- Main issues like land use, relocation of same industries that exist, exports earnings vs loss of tax income
- Industrial sickness, institutional mechanism to support the sick industries, exit policy issues
- Main constraints in the industrial development of India
- Effects of globalization on industries, Sub- prime crisis and sovereign debt crisis on Industry in India

- Industrial Finance in India: Role of development banking, commercial banking, venture capital, angel capital in industrialization and promotion of entrepreneurship
- Make in India achievements

### 3. Investment Models

- Public Investment Model
- Private Investment Model
- Public Private Partnership Model
- BOT (build–operate–transfer).
- BOOT (build-own-operate- transfer).
- BOO (build–own–operate).
- BLT (build–lease–transfer).
- DBFO (design–build–finance–operate)

**PRELIMS TEST**

**ECONOMY REVISION TEST**  
(COMPLETE SYLLABUS)

**MAINS TEST**

**ECONOMY REVISION TEST**  
(COMPLETE SYLLABUS)

**MAINS TEST**

**ESSAY MOCK TEST - 1**

# **GEOGRAPHY**

## **(SUB TOPIC LISTING)**



**APPROACH CLASS (GEOGRAPHY)****PRELIMS TEST****WORLD PHYSICAL  
GEOGRAPHY - 1****GEOMORPHOLOGY****1. The origin of the Earth**

- Early Theories
- Modern Theories
- Star Formation
- Formation of Planets
- Solar System

**2. The Evolution of the Earth**

- Layered Structure
  - ▶ Evolution of Lithosphere
  - ▶ Evolution of Atmosphere
  - ▶ Evolution of Hydrosphere

**3. Geological History of the Earth****4. Earth**

- Latitude and Longitude including important Parallels and Meridians
- Motions of the Earth - Rotation, Revolution and their effects
- Inclination of the Earth's Axis and its effects
- Local and Standard Time and the International Date Line, Calendar
- Eclipses - Solar, Lunar

**5. Origin of Life****6. Geological Time Scale****7. Interior of the Earth**

- Sources of Information
  - ▶ Direct
  - ▶ Indirect - Earth Quake Waves
  - ▶ Volcanoes
- Crust
- Mantle
- Core

**8. Geology**

- Minerals
- Major Elements of the Earth's Crust
  - ▶ Minerals – Feldspar, Quartz, Pyroxene Amphibole, Mica, Olivine
  - ▶ Physical Characteristics – Crystal Form, Cleavage, Fracture, Lusture, Color, Streak
  - ▶ Transparency, Structure, Hardness, Specific Gravity
  - ▶ Metallic minerals – precious Ferrous, Non Ferrous
  - ▶ Non-metallic Minerals – Sulphur, Phosphates, Cement
- Rocks (Aggregate of Minerals)
  - ▶ Petrology
  - ▶ Rocks & landforms
  - ▶ Rocks & Soils



- ▶ 3 Family of Rocks
  - Igneous
  - Sedimentary
  - Metamorphic
- Rock Cycle

## 9. Earthquakes & Volcanoes

- Waves: P, S, Body, Surface
- Shadow Zone
- Types of Earthquakes
- Effects
- Frequency
- Locating an Epicentre
- **Volcano**
  - ▶ Types
    - Shield
    - Composite
    - Caldera
    - Flood Basalt
    - Mid Ocean Ridge
- Landforms (intrusive)
  - ▶ Batholiths
  - ▶ Lacoliths
  - ▶ Lapoliths
  - ▶ Phacoliths
  - ▶ Sills
  - ▶ Dykes

## 10. Geomorphic Processes

- Earth's Surface
  - ▶ Exogenic Forces
  - ▶ Endogenic Forces
  - ▶ Gradation, Degradation & Agradation
- Geomorphic Process

- ▶ Endogenic Process
  - Diastrophism
  - Orogenic
  - Epierogenic
  - Earthquakes
  - Plate movements
  - Volcanism
- ▶ Exogenic Forces
  - Denudation Processes
  - Weathering
  - Mass movements

## 11. Distribution of Continents & Oceans

- Theories
- Continental Drift Theory
  - ▶ Alfred Wegner 1912
  - ▶ Pangea, Panthalasa
  - ▶ Laurasia, Gondwanaland
- Evidence in support of Continental Drift Theory
  - ▶ Jigsaw Fit
  - ▶ Rocks of Same age across oceans
  - ▶ Tillite
  - ▶ Placer Deposits
  - ▶ Distribution of Fossils
- Forces of Drifting
  - ▶ Pole Fleeing Force
  - ▶ Tidal Force
- Post Drift Studies
  - ▶ Convectional Current Theory
  - ▶ Mapping of the Ocean Floor
- Continents – Plate Tectonics
  - ▶ Lithospheric Plates

- ▶ Major Plate
- ▶ Minor Plates
- Plate Boundaries
  - ▶ Divergent
  - ▶ Convergent
  - ▶ Transform
- Rates of Plate Movements
- Force of plate movements
- Indian Plate

## 12. Landforms and their Evolution

- Causes
  - ▶ Geomorphic Processes
  - ▶ Agents
- Geomorphic Agents
  - ▶ Erosional or Destructional
  - ▶ Depositional or Constructional
- Agents and their Impacts
- Wind, Running Water, Ground Water, Glaciers, Waves & Currents
- Winds
  - ▶ One of the Two dominant agents in Hot deserts
  - ▶ Cause – Deflation Abrasion Impact
  - ▶ Erosional landforms
    - Pediments and Pediplains
    - Playas
    - Deflation Hollows and Caves
    - Mushroom, Table & Pedestal Rocks
- ▶ Depositional Landforms
  - Barchans
  - Seif
  - Parabolic
  - Transverse
  - Longitudinal
- Running Water
  - ▶ Erosional Landforms
    - Valleys
    - Rills
    - Gullies
    - Valleys – V Shape, Gorge (Hard Rocks), Canyon (Sedimentary)
    - Potholes & Plunge pools
    - Incised or entrenched meanders
    - River Terraces – paired & unpaired
- Depositional Landforms
  - ▶ Alluvial Fans
  - ▶ Delta
  - ▶ Flood Plains, Natural Levees, Point Bars
  - ▶ Meanders, Slip off bank, Under cut bank
  - ▶ Oxbow lake
  - ▶ Braided Channels
- Ground Water (Karst Topography)
- Permeable Rocks
  - ▶ Percolation
  - ▶ Bedding Plains

## MAINS TEST

## WORLD PHYSICAL GEOGRAPHY - 1

### UPSC SYLLABUS

- Salient features of world's physical geography
- Geophysical phenomena such as earthquakes, Tsunami, Volcanic activity, cyclone etc.
- Geographical features and their location- changes in critical geographical features (including water-bodies and ice-caps) and in flora and fauna and the effects of such changes.

### 1. General Geography

- Universe
  - Theories of development of Universe
  - Star Formation
  - Formation of planets
- Earth Evolution & Basics
  - Evolution of Earth
  - Evolution of Atmosphere
  - Evolution of Hydrosphere
  - Earth's Geological time scale
  - Origin of life
  - The Earth's Movements- Revolution and Rotation and Seasons
  - Inclination of the Earth's Axis and its effects

### 2. Geomorphology

- **Earth's Interior**
  - Sources of Information about the Interior (Direct Sources, Indirect Sources - Earth Quake Wave, Volcanoes)
  - Structure of the Earth's Interior
  - Mechanical and Chemical categorization of internal structure

### ◦ Geology and Rock System

- Minerals
- Major Elements of the Earth's Crust
  - Physical Characteristics
  - Classification -
- Rocks (Aggregate of Minerals )
- Classification
  - Igneous
  - Sedimentary
  - Metamorphic
- Rocks & landforms
- Rocks & Soils

### ◦ Geomorphic Processes

- Endogenic Force
  - Diastrophism
  - Orogenic
  - Epierogenic
  - Earthquakes
  - Plate movements
  - Volcanism
- Exogenic Forces
  - Denudation Processes
  - Weathering & its Significance

- Mass movements & their impact
- Erosion Transportation & Deposition
- **Earthquakes and Volcanism**
  - Earthquakes: Reasons, Distribution & impact
  - Volcanism
    - Types and distribution of Volcanoes
    - Volcanic Landforms (intrusive)
- **Distribution of Continents & Oceans**
  - Theories
    - Continental Drift Theory
    - Convectional Current Theory
    - Mapping of the Ocean Floor
    - Sea Floor Spreading
    - Plate Tectonics
    - Isostasy
- **Landforms and their evolution**
  - Causes of landform development
- Geomorphic Processes
- Geomorphic Agents
- Geomorphic Agents and Landforms
  - Running Water
    - ◆ Development of a river System
    - ◆ Erosional Landforms
    - ◆ Depositional Landforms
  - Ground Water (Karst Topography)
    - ◆ Erosional Landforms
    - ◆ Depositional landforms
  - Glaciers
    - ◆ Erosional Landforms
    - ◆ Depositional Landforms
  - Waves and Currents
  - Winds
    - ◆ Erosional Landforms
    - ◆ Depositional Landforms
- Landforms across the world
  - Rivers and lakes
  - Mountain and Peaks
  - Plateaus

## PRELIMS TEST

## WORLD PHYSICAL GEOGRAPHY - 2

◦ CLIMATOLOGY + OCEANOGRAPHY + BIOGEOGRAPHY

### 1. Climatology

- Composition
  - Gases
  - Water Vapour
  - Dust Particles
- Structure
  - Exosphere
  - Thermosphere
  - Mesosphere
  - Stratosphere
  - Troposphere
- Altitude vs Temperature
- Solar Radiation Heat Balance Temperature

- Insolation
- Aphelion and Perihelion
- Variability of Insolation at the surface of the Earth
- Day Season Year
- Rotation on Axis , Angle of Inclination of sun rays , Length of the day
- Transparency of Atmosphere, configuration of land in terms of its aspect.
- Heat Balance
- Heating and cooling of atmosphere
  - Conduction
  - Convection
  - Advection
- Terrestrial Radiation
- Heat Budget of the Planet Earth
- Macro Budget
- Albedo
- Shortwave Radiation
- Long wave Earth Radiation
- Variation in the net Heat Budget at the Earth's Surface
- Temperature
- Factors controlling Temp distribution
- Distribution of Temp Month of January-July
- Range of Temp Month of January-July
- Inversion of Temperature
- Atmospheric Circulation and Weather Systems
- Atmospheric Pressure
  - Vertical variation of pressure
  - Horizontal distribution of pressure
  - World Distribution of Sea Level Pressure
- Factors affecting the velocity and direction of the Wind
  - Pressure Gradient Force
  - Frictional Force
  - Coriolis Force
- Pressure and Wind ( Cyclonic & Anticyclone Circulation)
- General Circulation of the Atmosphere – Pattern of Planetary Winds
- Latitudinal Variation of Atmospheric Heating
- Emergence of Pressure Belts
- Migration of Belts Following apparent Path of Sun
- Distribution of continents & Oceans
- Rotation of the Earth
- Circulation
- Simplified Global Circulation – Hadley Cell , Ferrel Cell
- Seasonal Wind
- Local Wind
- Land and Sea Breezes
- Mountain and Valley Winds
- Air mass & fronts
- Extra Tropical Cyclone
- Thunderstorms
- Tornadoes
- Water in the Atmosphere
- Water Vapour
- Precipitation
- Humidity – Absolute and Relative

- Saturation – Dew Point
- Evaporation and Condensation
- Dew
- Frost
- Fog & Mist
- Clouds
  - ▶ Types – Cirrus, Cumulus, Stratus, Nimbus
  - ▶ High – Cirrus, Cirrostratus, Cirrocumulus
  - ▶ Middle – Altostratus, Altocumulus
  - ▶ Low – Stratocumulus, Nimbostratus
  - ▶ Vertical Development – Cumulus and Cumulonimbus
- Precipitation
- Rainfall, Snowfall, Sleet Hail, Hailstones
- Types of Rainfall
  - ▶ Conventional
  - ▶ Orographic
  - ▶ Cyclonic
- World Distribution of Rainfall
- World Climate
  - ▶ The Hot, Wet Equatorial Climate
  - ▶ The Tropical Monsoon and Tropical Marine Climates
  - ▶ The Savanna or Sudan Climate
  - ▶ The Hot Desert and Mid-Latitude Desert Climates
  - ▶ The Warm Temperate Western Margin (Mediterranean) Climate
  - ▶ The Temperate Continental (Stepp Climate

- ▶ The Warm Temperate Eastern Margin (China TypClimate
- ▶ The Cool Temperate Western Margin (British TypClimate
- ▶ The Cool Temperate Continental (Siberian) Climate
- ▶ The Cool Temperate Eastern Margin (Lauren-tian) Climate
- ▶ The Arctic or Polar Climate

## 2. Oceanography

- Water on the Surface of the Earth
- Hydrological Cycle
- Component
- Processes
- Oceans
- Relief of the Ocean floor
- Divisions of the ocean floor
  - ▶ Continental Shelf
  - ▶ Continental Slope
  - ▶ Deep sea plain
  - ▶ Oceanic deep and Trenches
- Minor relief features
  - ▶ Mid oceanic ridges
  - ▶ Seamount
  - ▶ Submarine canyons
  - ▶ Guyouts
  - ▶ Atoll
- Temperature of the Ocean Water
  - ▶ Vertical
  - ▶ Spatial
- Factors affecting Temperature distribution
  - ▶ Latitude
  - ▶ Unequal distribution of land & Water

- ▶ Prevailing wind
- ▶ Ocean Currents
- ▶ Horizontal & Vertical Distribution
- Salinity of the Ocean Water
- Factors affecting salinity
  - ▶ Evaporation and precipitation
  - ▶ Fresh water flow from rivers
  - ▶ Ocean Currents
- Horizontal distribution of salinity
- Vertical Distribution of salinity
- Density of Ocean Waters
- Movements of ocean Water
- Factors influencing Movement
  - ▶ Temperature
  - ▶ Salinity
  - ▶ Density
- Motion – Horizontal and Vertical Currents
  - ▶ Waves
    - Motion of waves and water molecules
    - Characteristics of wave
      - ◆ Crest and Trough
      - ◆ Height
      - ◆ Amplitude
      - ◆ Period
      - ◆ Length
      - ◆ Speed
      - ◆ Frequency
- Tides
  - ▶ Relation between Gravitational Forces and Tides
  - ▶ Tidal currents
  - ▶ Types of Tides

- Based on Frequency – Semi Diurnal , Diurnal, mixed
- Based on SME position – spring and Neap Tides
- ▶ Importance of Tides
- Ocean Currents
  - ▶ Primary Force that initiates the movement
    - Heating of solar energy
    - Wind
    - Gravity
    - Coriolis force
  - ▶ Secondary force that influence the currents to flow
- Types of ocean currents:
  - ▶ Surface currents & Deep water currents based on Depth
  - ▶ Cold and Warm Currents based on Temperature
- Major Ocean currents of the World
- Effects of Ocean Currents

### 3. Bio-Geography

- **Soil& Its Characteristics**
  - ▶ Soil Characteristics
  - ▶ Factors Responsible for Soil Formation
  - ▶ Process of Soil Formation
  - ▶ Soil Profiles and Horizons
  - ▶ Classification of Soil
  - ▶ Soil Degradation, Erosion and Conservation
- **Vegetation resources**
  - ▶ Types of natural vegetation
  - ▶ Forests
    - Significance of forests



- Factors of forest development
- Classification of forests
- forest cover
- Grasslands
- Desert vegetation
- Tundra Vegetation
- Deforestation
- Conservation of forests
- Reforestation
- Afforestation
- Forestry
  - Social forestry
  - Agro-forestry
  - Farm Forestry
  - Community Forestry

## MAINS TEST

## WORLD PHYSICAL GEOGRAPHY - 2

◉ CLIMATOLOGY + OCEANOGRAPHY+ BIOGEOGRAPHY

### 1. Oceanography

- ◉ Hydrosphere
- ◉ Water on the Surface of the Earth
- ◉ Hydrological Cycle
- ◉ Submarine Relief Features
- ◉ Relief of the Ocean floor
- ◉ Divisions of the ocean floor
- ◉ Minor relief features
- ◉ Temperature and Salinity
  - Temperature of the Ocean Water
  - Factors affecting Temperature distribution
  - Horizontal and Vertical Distribution
  - Salinity of the Ocean Water
  - Factors affecting salinity
  - Horizontal distribution of salinity
  - Vertical Distribution of salinity
- ◉ Density of Ocean Waters
- ◉ Movements of Ocean Water
- ◉ Factors influencing Movement
  - ◉ Waves
    - Motion of waves
  - ◉ Characteristics of wave
  - ◉ Tides
    - Types of Tides
    - Importance of Tides
  - ◉ Ocean Currents
    - Characteristics of Ocean Currents
    - Types of ocean currents:

### 2. Climatology

- ◉ **Atmosphere**
  - Composition of the Atmosphere
  - Structure of the Atmosphere
- ◉ **Solar Radiation, Heat Balance and Temperature**
  - Solar Radiation and Isolation
  - Heating and cooling of atmosphere
  - Terrestrial Radiation
  - Heat Budget of the Planet Earth



- ▶ Temperature
  - ▶ Factors Controlling Temperature Distribution
  - ▶ Distribution of Temperature
  - ◉ **Atmospheric Circulation and Weather Systems**
    - ▶ Atmospheric Pressure
      - Vertical variation of pressure
      - Horizontal distribution of pressure
      - World Distribution of Sea Level Pressure
    - ▶ Factors affecting the velocity and direction of the Wind
    - ▶ General Circulation of the Atmosphere – Pattern of Planetary Winds
    - ▶ Latitudinal Variation of Atmospheric Heating
    - ▶ Emergence of Pressure Belts
      - Hadley Cell , Ferrel Cell, Polar Cell
      - Seasonal Wind
      - Local Wind
      - Land and Sea Breezes
      - Mountain and Valley Winds
    - ▶ Air Mass, Fronts, Cyclones and Jet Stream
      - Air mass & fronts
      - Cyclones
      - Thunderstorms
      - Tornadoes
  - ◉ **Water in the Atmosphere**
    - ▶ Water Vapour
    - ▶ Humidity – Absolute and Relative
    - ▶ Saturation – Dew Point
    - ▶ Evaporation and Condensation
      - Dew
      - Frost
      - Fog & Mist
      - Clouds
    - ▶ Precipitation
      - Rainfall
      - Snowfall
      - Sleet Hail
      - Hailstones
      - Types of Rainfall
      - World Distribution of Rainfall
  - ◉ **Climatic Zones of the World**
    - ▶ World Climate
    - ▶ Koeppen's Scheme of Classification of Climate
    - ▶ Climatic Zones of World
- ### 3. Bio-Geography
- ◉ **Soil & Its Characteristics**
    - ▶ Soil Characteristics
    - ▶ Factors Responsible for Soil Formation
    - ▶ Process of Soil Formation
    - ▶ Soil Profiles and Horizons
    - ▶ Classification of Soil
    - ▶ Soil Degradation, Erosion and Conservation
  - ◉ **Vegetation resources**
    - ▶ Types of natural vegetation
    - ▶ Forests
      - Significance of forests
      - Factors of forest development

- Classification of forests
- forest cover
- Grasslands
- Desert vegetation
- Tundra Vegetation
- Deforestation
- Conservation of forests
- Reforestation
- Afforestation
- Forestry
  - Social forestry
  - Agro-forestry
  - Farm Forestry
  - Community Forestry

## PRELIMS TEST

## PHYSICAL GEOGRAPHY OF INDIA

### 1. Physical Geography Of India

#### ◉ Physiography of India

- Location
- Geopolitical Significance of India
- Geological Divisions
  - The Peninsular Block
  - The Himalayas and other Peninsular Mountains
  - Indo-Ganga-Brahmaputra Plain
- Physiographic Divisions

#### ◉ Drainage System

- Drainage Patterns
- Drainage System of India
  - Himalayan Drainage System
    - ◆ River Systems of Himalayan Drainage
    - ◆ Indus river system
    - ◆ Ganga River System
    - ◆ Brahmaputra river system
  - Peninsular Drainage System
    - ◆ River Systems of Peninsular Drainage

- ◆ Small Rivers Flowing Towards East and West

#### ◉ Climate

- Factors influencing the climate of India
- Monsoon
- Mechanism of the Monsoon
  - Classical Theory
  - Modern theory
  - Air mass theory
  - Jet stream theory
- ELNINO and LANINA & their impact
- The rhythm of Seasons
  - The cold weather season
  - The hot weather season
  - The southwest monsoon season
  - The retreating monsoon season
- Climatic Regions of India

#### ◉ Soils in India

- Classification of Soils
- Soil textures

- Issue of Soil degradation & Soil Erosion
- Soil Conservation
- ◉ **Natural Vegetation**

- Types of Forests in India
- Forest Cover in India
- Forest Conservation
- Forest Problems in India

## MAINS TEST

## PHYSICAL GEOGRAPHY OF INDIA

- ◉ Indian Physical Geography

### 1. Physical Geography Of India

#### ◉ Physiography of India

- Location
- Geopolitical Significance of India
- Geological Divisions
  - The Peninsular Block
  - The Himalayas and other Peninsular Mountains
  - Indo-Ganga-Brahmaputra Plain
- Physiographic Divisions

#### ◉ Drainage System

- Drainage Patterns
- Drainage System of India
  - Himalayan Drainage System
    - ◆ River Systems of Himalayan Drainage
    - ◆ Indus river system
    - ◆ Ganga River System
    - ◆ Brahmaputra river system
  - Peninsular Drainage System
    - ◆ River Systems of Peninsular Drainage
    - ◆ Small Rivers Flowing Towards East and West

#### ◉ Climate

- Factors influencing the climate of India
- Monsoon
- Mechanism of the Monsoon
  - Classical Theory
  - Modern theory
  - Air mass theory
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- ELNINO and LANINA & their impact
- The rhythm of Seasons
  - The cold weather season
  - The hot weather season
  - The southwest monsoon season
  - The retreating monsoon season
- Climatic Regions of India

#### ◉ Soils in India

- Classification of Soils
- Soil textures
- Issue of Soil degradation & Soil Erosion
- Soil Conservation

#### ◉ Natural Vegetation

- Types of Forests in India
- Forest Cover in India

- Forest Conservation
- Forest Problems in India

## PRELIMS TEST

## HUMAN AND ECONOMIC GEOGRAPHY

◉ INDIA + WORLD

### 1. Demography

- ◉ Concept of human resources
- ◉ Population distribution
  - Physical factors
  - Socio-cultural factors
  - Demographic factors
- ◉ World population distribution
  - Ecumene
  - Non-ecumene
  - Continent-wise distribution of population
- ◉ Density of population
- ◉ Pattern of population density
- ◉ Population increase (growth) in the world
- ◉ Causes of rapid increase in population
- ◉ Future projections
- ◉ Determinants of population growth
- ◉ Natural increase
- ◉ Characteristics of population
  - Age composition
  - Population pyramids
  - Sex composition
  - Literacy
- ◉ Theories of population growth
  - Malthusian theory
  - Marxian theory
  - Demographic Transition Theory
- ◉ Optimum population
- ◉ Over-population
- ◉ Under-population
- ◉ Population problems
  - Population problems of developing countries
  - Population problems of developed countries
- ◉ Population Policies: of China, of India.
- ◉ Various types of rural settlements
- ◉ Relationship between house types with relief, climate and building materials

### 2. Urbanization

- ◉ Basic Feature and Pattern's of India's Urbanization
- ◉ Issues of Urbanization in India
- ◉ Rural Urban Migration
- ◉ Emergence of Slums
- ◉ Urban Transport
- ◉ Waste Disposal
- ◉ Water Supply, Drainage and Sanitation

- Electronic Waste
- Urban Poverty
- Real Estate (Regulation & Development) Bill
- Way Forward to Tackle Issues Related to Urbanization
  - Inclusive Cities/Smart cities
  - Recent government programmes: AMRUT, HRIDAY Scheme
- Migration
- Displacement
- Importance of the Rehabilitation Policy
- Urban settlements: types
- Morphology of urban settlements
- Migration: Push factors and pull factors
- Emigration during colonial, post-independent and post-liberalisation period
- Functional classification of cities
- Difference between boundaries and frontiers, their classification
- Rural urban fringe characteristics, advantages, problems
- National urbanisation policy
- Factors affecting rural settlements, their types and patterns

### 3. Census

- Literacy
- Sex Ratio
- Family Planning
- Old Age
- Age Structure

- Density
- Population Growth
- Census Terminologies

### 4. Mineral Resource

- Types of minerals: Metallic minerals
- Non-metallic mineral
- Distribution of minerals and mining regions
- Distribution, production and international trade of Metallic minerals: Ferrous metals: Iron ore
- Ferro-alloys and non-ferrous
  - Manganese
  - Chromium
  - Nickel
  - Tungsten
  - Antimony
  - Copper
  - Bauxite and Aluminium
  - Zinc; Lead
  - Tin
  - Gold
  - Silver
  - Platinum
- Mineral chemicals
  - Mica
  - Potash
  - Phosphate
  - Nitrates
  - Sulphur
- Conservation of mineral resources

## 5. 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
  - Byproducts of coal
  - Conservation of Coal
- Petroleum
  - Nature and properties of petroleum
  - Origin and recovery
  - Exploration
  - Petroleum refining
  - Petroleum reserves
  - Producing areas
  - Consumption of petroleum
  - International trade
  - OPEC and its role in oil trade
- Natural gas: Reserves and Production
- Hydro-electricity
  - Advantages of hydro-electricity
  - Ideal conditions for generation of hydro- electricity
  - Distribution of potential hydro-power
  - Hydro-electric power generation in India
- Atomic (nuclear) energy
  - Atomic: source minerals: Uranium

- World distribution of Uranium
- Production of Uranium
- Thorium
- Production of Atomic (Nuclear) Energy
- Nuclear Energy
- Alternative (non-conventional) sources of energy
  - Solar energy
  - Wind energy
  - Geothermal power
  - Tidal energy
  - Wave energy
  - Biomass energy

## 6. Industry

- Industrial development
- Iron and Steel Industry
  - Location of iron and steel industry
  - Early localization
  - Development of iron manufacture
  - Distribution of iron and steel industry
  - Global steel production
  - International trade
  - Growth potential of the steel industry
- Textile Industry
  - Cotton Textile Industry: Location of the industry
  - Recent trends in localization
  - Distribution and production of cotton textiles

- ▶ Woollen textile industry:  
Location of the industry
  - ▶ Silk textile industry: Raw silk manufacture
  - ▶ Silk textile manufacturing
  - ▶ Synthetic (artificial) silk industry: Distribution of man-made fibre and fabrics.
  - Engineering Industries
  - Machine tools and machines:  
Areas of production
    - ▶ Industrial machinery: Textile machinery
    - ▶ Other industrial machinery
    - ▶ Agricultural machinery
  - Manufacturing of transport equipment
    - ▶ Automobile industry
    - ▶ Railway car and locomotive industry
    - ▶ Shipbuilding
    - ▶ Aircrafts Industry
  - Chemical Industry & Fertilizer
    - ▶ Classes of chemicals:  
Branches of chemical industry
    - ▶ Heavy chemical industry
    - ▶ Production of acids and alkalies
    - ▶ Rise of chemical industry
    - ▶ Fertilizer industry: Nitrogen fertilizers
    - ▶ Phosphate fertilizers
    - ▶ Potash fertilizers
    - ▶ Explosives
  - Glass industry: Production of glass
  - Agro-industries
    - Synthetic rubber industry
    - Pulp and paper industry: Essential conditions for pulp production
    - Production of paper and paper board
    - Newsprint
    - Cement industry
      - ▶ Distribution of cement industry
      - ▶ Recent trends: Main global competitors
    - Petroleum refining industry: Localization
      - ▶ Site selection of petroleum refineries
      - ▶ History of oil refineries
      - ▶ World pattern of oil refining
      - ▶ Petroleum products
    - Industrial Regions
      - ▶ Characteristics of industrial regions
      - ▶ Delimitation of an industrial region
      - ▶ Principal industrial regions of the world
      - ▶ Industrial regions of Anglo America—USA, Canada, Western Europe and Central Britain, Germany, Belgium, Netherlands, France, Italy, Eastern Europe, Poland, Former USSR
      - ▶ Eastern Asia—Japan, China, the 'Dragons', India, High tech patterns.
- ## 7. Transport
- Importance and development of transport
  - Means of transport



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

## 8. Vegetation Resources

- Types of natural vegetation
- Forests
- Significance of forests
  - Economic significance, Ecological significance
  - Cultural significance
- Factors of forest development
- Extent of forest cover
- Classification of forests
  - Grasslands

- Desert vegetation
- Tundra Vegetation
- Economic utilization of forests
- Deforestation
  - Deforestation in tropical forests
  - Deforestation in temperate forests
  - Rate and extent of deforestation
  - Causes and factors of deforestation: Immediate causes of deforestation
  - Indirect deforestation
  - Underlying causes of deforestation
- Conservation of forests
  - Forest conservation strategies
    - Reforestation
    - Monoculture plantation
    - Afforestation
- Types of forestry
  - Social forestry
  - Agro-forestry

## 9. Basic terms related to Agriculture

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



- Land use pattern in India
- Institutional Factors as land reform
- Horticulture sector in India
- Agricultural revolutions
- Agricultural labours
- Price Policy for Agriculture
- Agricultural marketing
- Agricultural Insurance
- Agricultural Census
- Major schemes in agricultural sector
- National Policy for farmers
- Impact of climate change on agriculture
- What is sustainable agriculture?
- Use of IT in agriculture
- Agriculture Issues and Challenges

## 10. Productivity of Crops and conditions for growth

- Wheat
  - Conditions of growth
  - Varieties
  - Types of cultivation
  - Production pattern
  - International trade
- Rice
  - Conditions of growth
  - Varieties
  - Methods of cultivation
  - Production pattern
  - International trade
- Maize (Corn)
  - Conditions of growth
  - Production pattern
  - International trade
- Barley
  - Conditions of growth
  - Production pattern
  - International trade
- Oats
- Rye
- Beverages
- Tea
  - Condition of growth
  - Production pattern
  - International trade
- Coffee
  - Types of coffee
  - Conditions of growth
  - Production pattern
  - International trade
- Cocoa
  - Conditions of growth
  - Production pattern
  - International trade
- Tobacco
  - Conditions of growth
  - Production pattern
  - International trade
- Fibre Crops
- Cotton
  - Varieties of cotton
  - Conditions of growth
  - Production pattern
  - International trade
- Jute

- Conditions of growth
- Production pattern
- International trade
- Substitutes of Jute: Flax, Hemp
- Raw Silk
  - Production pattern
  - States
- Natural Rubber
  - Other sources of rubber
  - Plantations in South-east Asia
  - Production pattern
- Sugarcane
  - Conditions of growth
  - Production pattern
  - International trade
- Sugarbeet
  - Conditions of growth
  - Production pattern
  - Sugar industry
  - Sugar consumption
  - International trade.

## MAINS TEST

## HUMAN & ECONOMIC GEOGRAPHY (INDIA & WORLD)

### UPSC SYLLABUS

- Distribution of key natural resources across the world (including South Asia and the Indian sub-continent)
- Factors responsible for the location of primary, secondary, and tertiary sector industries in various parts of the world (including India)
- Population and associated issues
- Rural and Urban settlement
- Urbanization, their problems and their remedies
- Census
- Infrastructure: Energy, Ports, Roads, Airports, Railways etc

### 1. Basics of Economic Geography

- Definition, Development and scope of Economic Geography
- Type of Economic Activities
  - Primary Activities
  - Secondary Activities
  - Tertiary, Quaternary and Quinary Activities
- Recent Themes and Concepts in Economic Geography

- Agglomeration Economies
- Neo-liberalism
- Rise of macro regional Economic block
- Ethnicity in Economic Geography
- Concept of digital divide

### 2. Resource

- Land Resource
- Land-use Pattern and changes

- Problems of Land Resources:
    - Land Degradation: Causes and Impact
    - Concept of Land Degradation Neutrality
  - Land Use Planning and Policy
  - Water Resources
    - Extent of Water Resources
    - Water Resource Potential of India
    - Utilization and related problems (Pollution)
    - Inter- state water disputes in India
    - Water management, conservation and Development
    - National Water Policy
  - Mineral Resources
    - Types of Mineral Resources
    - Distribution Pattern of Minerals in World
    - Major Mineral Belts of India
    - Problems related to mining
    - Conservation of Mineral Resources
    - National Mineral Policy, 2019
  - Energy resources
    - Classification of Energy Resources
    - Distribution and production trend of major energy Resources
  - Coal
  - Petroleum
  - Natural gas
  - Strategic Oil Reserves
  - Exploration of Coal Bed Methane
  - Non-Conventional Energy Resources
    - Solar Energy
    - Wind Energy
    - Geothermal
    - Nuclear Energy Resources: Challenges and prospects in India
  - Recent Debates on Resources
  - Geopolitics of Natural Resources
  - Globalisation and unsustainable exploitation of natural resources
  - Depletion of natural resources versus Economic Growth
  - Changing Pattern of Land Use and Causes
  - Water Crisis: Causes, Conflicts and Resolution
  - Energy Crisis
  - Challenges and constraints faced by coal sector
  - Challenges in Hydropower sector
  - Renewable Energy: way toward sustainability
  - Energy Security: Energy Policy and strategy in India
- ### 3. Agriculture
- **Agriculture Basic Terminologies**
    - Cropping pattern
    - Agriculture Productivity
    - Agriculture Intensity
    - Land capability
    - Location of agriculture
    - World Agriculture Typologies
    - Salient features of Indian

- Agriculture
  - Problems of Indian Agriculture
  - Factor Affecting Agriculture
    - Geographical factors
    - Institutional factors
    - Technological factors
  - Major Crops and conditions for growth
  - Regionalization of Agriculture
  - Various Revolutions in Agriculture Sector
    - Green Revolution
      - ◆ Impact of Green Revolution
      - ◆ Evergreen Revolution
    - White Revolution
    - Operation Flood
    - Blue Revolution
  - Agricultural Policies and Initiatives
    - Minimum Support Price: Benefits and Challenges
    - Agriculture Market Produce Committees: Issues
    - National Agriculture Market (NAM)
    - Agricultural Produce and Livestock Marketing (Promotion and Facilitating) Act (APLM), 2017
    - National Livestock Mission
    - National Programme for Bovine Breeding and Dairy Development (NPBBD)
    - Rashtriya Gokul Mission
    - Agriculture Export Policy, 2018
- Pradhan Mantri Kisan Samman Nidhi (PM- KISAN)
- Pradhan Mantri Annadataa Aay Sanrakshan Abhiyan (Pm-Aasha)
- Operation Greens
- Dairy Processing & Infrastructure Development Fund (DIDF)
- Fisheries and Aquaculture Infrastructure Development Fund (FIDF).
- Agriculture Census
- Food Security
  - Nature of Food Insecurity: Duration, Severity and types
  - Trend and Pattern in Food Insecurity
  - Causes and Geography of famine
  - Key Dimension of food security
  - Efforts and Remedies to ensure food security
- Agricultural in Discussion
  - Controversy over GM Crops: Benefits and Issues
  - Impact of climate Change on Agriculture
  - Evergreen Green Revolution for Sustainable Livelihood
  - Rainbow Revolution
  - Blue Revolution: Impact on Rural Economy
  - Climate Smart Agriculture
  - Need of Agriculture Diversification

- Mixed farming: Hedging Agriculture Risks
- Problems and Prospects of dry-zone agriculture
- Plantation Agriculture: Issues involved
- Challenges of increasing Agriculture Productivity and Production
- New 'White Revolution': Need, Scope and Challenges
- Contract Farming: Benefits and Challenges
- Role of infrastructural and institutional factors in the recent transformation of Indian agriculture
- Impact of advanced agricultural technologies on the Environment
- Soil Health Card scheme and rationalisation of fertilizer subsidies
- Food Security: India's Vulnerability and way-out
- Jute Industry
- Auto Mobile Industry
- Fertilizer Industry
- Agro-based Industries
- Other Industries
- Industrial Regions and its Characteristics
- Major Industrial Regions of the World
- Industrial Regions of India
- Industrial Policies and Development
  - A Scheme for Promotion of Innovation, Rural Industry and Entrepreneurship (ASPIRE)
  - Scheme of Fund for Regeneration of Traditional Industries (SFURTI)
  - Stand Up India
  - Fourth Industrial Revolution
  - Role of Industrial development in minimizing regional inequalities
  - Problems of Industrial regions
  - Factors behind the growth and present location pattern of automobile industry in India
  - Pharmaceutical industry: Locational pattern and reasons
  - Sugar industry: Problems and challenges of current pattern
  - Food Processing Industry: Untapped Potential
  - Agro based Industries: Problems and Prospects
  - Impact of agro-based industries on cropping pattern

## 4. Industry

- Classification of Industries
- Factors affecting location of Industries
  - Weber's Model of Industrial Location
  - Losch theory of Profit Maximization
- Various Industries: Location, Prospects and Challenges
  - Iron and Steel Industry
  - Textile Industry

- ▶ Tourism: Prospects and Impact on Environment

## 5. Transport & Communication

### ◉ Land Transport

- ▶ Roads
  - Classification of roads
  - National Highway Grid
  - Problems and Prospects
  - Bharatmala Pariyojana

### ◉ Railways

- ▶ Significance and Problems of Indian Railways
- ▶ Dedicated Freight Corridors
- ▶ Privatisation of Railways

### ◉ Pipelines

- ▶ Significance, Distribution and Challenges

### ◉ Water Transport

- ▶ Inland: National Waterways
  - Factors affecting Inland waterways
  - Significance and Challenges
  - Jal Marg Vikas Project
- ▶ Seaways and Oceanic Route
  - Shipping
  - Major Ports of World and India
  - Challenges in Port Development
  - Sagarmala Project

### ◉ Air Transport

- ▶ National Airways
  - National Civil Aviation Policy
  - Regional Connectivity Scheme (UDAN)

- International Airways

### ◉ Communications

- ▶ Communication Infrastructure
- ▶ National telecom Policy

### ◉ Major Issues in Transport and Communication

- ▶ Role of Transport in Regional Development
- ▶ Need for holistic transport planning to improve the city's mobility
- ▶ Carbon footprint of the transport sector
- ▶ Road Transport: Investment Challenges
- ▶ Inland Waterways: Development challenges and prospects
- ▶ Ports: Inclusive centres of economic development
- ▶ Problem of Port Development
- ▶ Analysis of Sagarmala Project
- ▶ Environmental issues of maritime shipping
  - Role of Transport in Regional Development
  - Eco Tourism: Way toward Responsible Tourism

## 6. Trade

### ◉ World Trade Pattern

- ▶ Major Oceanic Trade Routes

### ◉ Basis of Overseas Trade

### ◉ Types of International Trade

- ▶ Bilateral Trade
- ▶ Multilateral Trade



- ◉ **Various Organisation Related to International Trade**

- ▶ Regional Trade Blocks

- ◉ **Foreign Trade: India**

- ▶ Trends in India's Foreign Trade
- ▶ Composition Indian Trade
- ▶ Direction of India's Foreign Trade

- ◉ **Trade Pattern and Policies**

- ▶ Changing Pattern of India's foreign trade
- ▶ Challenges and prospects of foreign trade of India
- ▶ Impact of trade liberalisation on the geographical distribution of industries
- ▶ Neo-liberal reforms in Africa: Race of India and China

## 7. Demography and Census World & India

- ◉ Concept of Human Resources
- ◉ Factors affecting the distribution of Population
- ◉ Population growth
- ◉ Theories of Population Growth
  - ▶ Malthusian Theory
  - ▶ Marxian Theory
  - ▶ Demographic transition theory
  - ▶ Optimum Population Theory
- ◉ Size, growth rate and distribution of population
- ◉ Components of Population growth

- ◉ Demographic Dividend
- ◉ Demographic Window of Opportunity
- ◉ Components of Population change
  - ▶ Birth Rate
  - ▶ Death Rate (Mortality Rate)
  - ▶ Migration
    - Factors responsible for migration
    - Type of Migration
    - Issues related to migration
    - Migration pattern in world and India
    - World Migration Report, 2018
- ◉ Population Composition
- ◉ Age Sex Pyramids & their significance
- ◉ Trends and Pattern in Sex Ratio
- ◉ Initiatives to improve Sex ratio
- ◉ Trends and Patterns in Literacy
- ◉ Government's Efforts
- ◉ Fertility Rate
- ◉ Impact of Population Change
- ◉ Population Policies
- ◉ Need for revision of National Population Policy
- ◉ Population problems
- ◉ Global Nutrition Report, 2018
- ◉ Global Hunger Index

## 8. Settlements and Urbanization

- ◉ Rural Settlements
- ◉ Classification of Rural Settlements

- Function of Rural Settlements
- Patterns of Rural Settlements
- Changing Pattern of Rural Settlements
- Urban Settlements
- Origin of Urban Settlements-Functional Classification of Towns
- Urbanization
- Indian Mega Cities
- Central Place Theory
- Primate City
- Morphology of Indian Cities
- Conurbations
- Urban Slums
- Rural Urban Fringe
- Rural Urban Continuum
- Issues related to Urbanization in India
- Habitat – III Conference
- Schemes
  - ▶ Pradhan Mantri Awas Yojana or Housing for All Scheme

- ▶ Smart City Initiative
- ▶ AMRUT (Atal Mission for Rejuvenation and Urban Transformation)
- ▶ HRIDAY (Heritage City Development and Augmentation Yojana)

## 9. Regional Planning and Development

- Concept of Region
- Types of Regions
- Issues of Regional Imbalances
- Strategies for Regional Development
- Human Development
- Growth v/s Development
- Approaches to Human Development
- Human Development Index
- International comparisons of Human Development
- World Development Report, 2019
- Human Development Report

**PRELIMS TEST**

**GEOGRAPHY REVISION TEST**

(COMPLETE SYLLABUS)

**MAINS TEST**

**GEOGRAPHY REVISION TEST**

(COMPLETE SYLLABUS)

**MAINS TEST**

**ESSAY MOCK TEST-2**



# **SOCIETY**

## **(SUB TOPIC LISTING)**

## APPROACH CLASS (SOCIETY)

### MAINS TESTS

### SOCIETY (1&2)

#### UPSC SYLLABUS

- Salient features of Indian Society
- Diversity of India
- Effects of globalization on Indian society
- National Integration, communalism, regionalism & secularism
- Role of women and women's organization
- Social empowerment, poverty and developmental issues
- Welfare schemes for vulnerable sections of the population by the Centre and States and the performance of these schemes; mechanisms, laws, institutions and Bodies constituted for the protection and betterment of these vulnerable section
- Issues relating to development and management of Social Sector/Services relating to Health, Education, Human Resources
- Issues relating to poverty and hunger
- Inclusive growth and issues arising from it.

### UNITY IN DIVERSITY

#### 1. Forms of Diversity in India

#### 2. Bonds of Unity In India

- Geo-political Unity
- The Institution of Pilgrimage
- Tradition of Accommodation
- Tradition of Interdependence
- Role of Sensitive Leaders
- Constitutional Safeguards – Role of Constitution Framers

#### 3. Challenges of Diversity to Unity (Challenges to National Integration)

- Diversity of Constituents
- Regionalism & cultural identities

#### ► Casteism

#### ► Linguism

#### ► Communalism

- Social Inequalities
- Regional Disparities
- Ethno-Nationality and Ethnic Conflicts
- Tribal Identity

#### 4. The Family and Kinship

#### 5. Culture - Concepts

### SECULARISM, REGIONALISM AND COMMUNALISM

#### 1. Secularism & Secularization

- Western and Indian Concept

- ▶ Process of Secularization
- ▶ Secularism and Forced Conversion in India

## 2. Communalism, Fundamentalism And Communal Violence

## 3. Regionalism

- Regionalism in India
- Types of Regionalism
- Effects of Regionalism
- Regionalism: Demand for Smaller States
- Strategies to tackle Regionalism
- Sons Of Soil Concept

## SOCIAL EMPOWERMENT

## 1. Constitutional Provisions Relevant to Social Justice & Empowerment of Scheduled Caste & Scheduled Tribes

## 2. Status Of Minorities In India

## 3. The Scheduled Castes: From Untouchable To Dalit

- Population of the Scheduled Castes
- Types of Disabilities of the SCs
- From Untouchables to the Dalits: The Process of Identity Formation
- Combating Mechanism against Caste Atrocities and Violence
- The State Efforts for Dalit Emancipation

## 4. Tribals In India

- Chronic Indebtedness
- Forest Related Problems
- Destruction of the Forest Environment and the Tribal People
- Development and Displacement
- Analysis of Forest Rights Act

## 5. Role of Women

- **Nature of participation - Issues, Causes & Concerns**
- 19<sup>th</sup> Century Women Movements – Under Social Reform Movements
- Women's Issues During Gandhian Era
- Issues in Post Independence Era
- Violence Against Women
- Developmental Movement
- Uniform Civil Code

## 6. Social Justice

- Concept of Casteism in India
- Caste and Politics
- The Reservation Policy Debate
- Social Justice and Social Development
- Social Security In India
  - ▶ Concept

## 7. Social Security System in India

- Organized Sector and Social Security
- Unorganised Sector and Social Security

- Centrally Funded Social Assistance Programmes
- Public Initiatives
- Review of the implementation of Social Security Laws in the Country
- Suggestions for Improving the Social Security Matrix

## 8. Population Studies

- Introduction to demography
- India's population dynamics
- Dimensions of Poverty
- Linkage between Poverty and Development
- Recommendations of Rangarajan Committee Report
- Poverty Alleviation Strategy Since Independence
- Programmes for Poverty Alleviation
- Challenges - Poverty
- Concept of Inequality
- Contemporary population trends

## GLOBALIZATION

### 1. Meaning of Globalization

### 2. Reasons for Globalization

### 3. Dimensions/Impact

- Political
- Cultural and Social
- Economic

### 4. Anti-Globalization Movement

### 5. New Localism

## URBANIZATION & CENSUS 2011

### 1. Urbanization

- Trend and pattern of Urbanization
- Issues Related to Urbanization in India
- Status of Service Delivery and Governance
- Urban Development Projects
- Critical Analysis of Smart City Mission

### 2. CENSUS 2011

- Highlights of 2011 Census
- Analysis of Sex Ratio Data
- Impact of Skewed Ratio
- Laws related to Prevent Female Infanticide
- Recent initiatives
  - Trend and Current Scenario of Literacy in India
  - Literacy Challenges in India as Whole
  - Efforts to Improve the Literacy in Country
  - Child Health Indicators and Maternal Health
  - Initiatives taken by the Government
  - Why the Health schemes fail to bring change?
  - Family Planning and Population Policy of India
  - Analysis on Status of Old Age Population: Issues & Policy Initiative
  - Socio-Economic Caste Census 2011

## CONTEMPORARY ISSUES

### 1. Secularism, Regionalism & Communalism

- Secularism and Anti Conversion
- Regionalism: Demand for Smaller States
- Socio-Economic Caste Census, 2011
- Gender Discrimination in the Corporate Sector

### 2. Issues Related To Women

- Gender Discrimination in Corporate Sector
- Female Genital Mutilation
- Bill on Banning Triple Talaq
- Adultery No Longer a Crime : SC
- Unwanted Girls in India
- Altruistic Surrogacy in India
- Women in Panchayats
- Women Participation in Economy
- # Me Too Movement
- Draft National Policy for Women, 2016
- Laws Related to Stalking in India
- Debate on the Issue of Marital Rape
- India's Maternity Laws need Serious Tweaking
- Women in Judiciary Matters
- SC's Judgment on Dowry
- Gender Budgeting: Critical Analysis

### 3. Issues Related to Children

- Issues Faced by Children in War

### Zone

- High Dropout Rate of Girls in India
- Child Trafficking
- Safety of Children in Schools
- Issue of Malnutrition in India
- Amendments Proposed in Child Labour Act
- Plight of Street Children
- Juvenile Justice System
- Child Marriages in India
- Death for child Rape
- Draft National Child Protection Policy
- National Action Plan for Children, 2016

### 4. Other Issues

- India's Family Planning Programme: Critical Analysis
- Demography and Policy Planning
- India's Ageing Report
- Legalising Same Sex Marriage
- Domestic Workers: Issues and Laws
- Development Leading to Displacement
- Moral Policing
- Euthanasia and Living Will
- Inadequacies in existing Human Trafficking laws in India
- Transgender Bill passed in Lok Sabha with Amendments
- Mental Health Care Bill
- Rights of Persons with Disabilities Act

## CONTEMPORARY ISSUES

- Manual Scavenging
- Mob lynching and Rule of Law
- Issue Related to Undertrials
- Income Inequality in India
- Indigenous People in India : An Analysis
- Debate Over Death Penalty
- Global Slavery Index Report
- Right to Privacy Judgement
- SC Verdict on SC/ST Atrocities Bil Social

### 5. Health & Education

- Allied Health Care Professions Bill, 2018
- Ahead on Malaria: On reduction in cases in India
- India and Neglected Disease Treatment
- TB Status in India and Bedaquiline Patent Challenge
- Status of E-Pharmacies in India

- Changes Proposed in No Detention Policy National Policy on Education
- Capacity Building for Primary Health Care
- NITI Aayog on Privatisation of Urban Health Care
- National Health Policy, 2017 Regulating Private Healthcare
- India's Nutrition Challenge
- Food Fortification
- Sanitation and Nutrition Linkage
- Ayushman Bharat

### 6. Miscellaneous

- Is social media polarizing society? Draft Social Security Code Uniform Civil Code
- Critical Analysis of Stand Up India Scheme SC Suggests for Prison Reforms
- Statue of Unity

# **ETHICS**

## **(SUB TOPIC LISTING)**



## APPROACH CLASS (ETHICS)

### MAINS TEST

### ETHICS - 1

- Ethics and Human Interface + Case Studies 1

#### 1. Ethics: Basic Introduction

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

#### 2. Human values

- Human Values & Socialization
- Individual Personality and Values
- Values and Skill

- Fundamental and Instrumental Values
- Democratic values
- Role of Ethical values in governance and society
- Significance of values in civil services
- Aesthetic values
- Values in work life and professional ethics

#### 3. Aptitude and Foundational Values of Civil Services

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

#### 4. India & World Thinkers

- Indian Thinkers
  - Mahatma Gandhi

- Dr. S Radhakrishnan
- Rabindranath Tagore
- Swami Dayanand Saraswati
- Mahadeva Govinda Ranade
- Sri Aurobindo
- Swami Vivekananda
- Sardar Patel
- Buddha
- Bhim Rao Ambedkar
- Raja Ram Mohan Roy
- Chhatrapati Shahu Maharaj
- Mother Teresa
- Amitabha Chowdhury
- Aruna Roy
- T N Seshan
- E Sreedharan

## ◉ Administrative Thinkers

- Max Weber
- Elton Mayo
- Peter Drucker
- Chester Barnard
- Mary Parker Follet
- World Thinkers
- Plato
- Aristotle
- Socrates
- Jeremy Bentham
- J.S. Mill
- Thomas Hobbes
- John Locke
- Jean Jacques Rousseau
- John Rawls
- Immanuel Kant
- Carol Gilligan

- Jean Paul Sartre
- Georg Wilhelm Friedrich Hegel
- Confucius
- Rene Descartes
- Karl Marx
- Adam Smith
- Thomas Aquinas
- David Hume
- Democritus
- Galileo
- Friedrich Nietzsche
- Montesquieu
- Voltaire
- Thomas Jefferson

## ◉ Indian & World Leaders

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

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

## 5. Attitude

- Components of Attitude: Affective, Cognitive, Behavioral component
- Functions of Attitude: Adjustive,

Ego- Defensive, Value-Expressive, Knowledge Function

- Attitude Formation Model
- Impact of Beliefs and Values on Attitude
- Group Influences
- Social Influence
- Persuasion Tactics and Tools of Persuasion
- Moral Attitude formation
- Political Attitude formation

## MAINS TEST

## ETHICS - 2

- Ethics and Governance + Case Studies 2

### 1. 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

### 2. Probity in Governance

- Concept of Public Service
- Philosophical basis of Governance and Probity
- Information Sharing, Transparency and Right to Information

### 3. Flaws in RTI and recommendations for Improvement

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

## MAINS TEST

## ETHICS - 3

- Applied Ethics + Case Studies

### 1. Euthanasia Issue

- Social and Ethical perspective
- Different arguments related to Euthanasia ...

### 2. Surrogacy

- Case studies and Ethical Issues
- Concept of ethical surrogacy
- Ethics & Sports
- Importance of sports
- Ethical Issue: Need for sportsmanship, Doping
- Ethical Issue: Discrimination and Sexual Harassment
- Ethical Issue: Sports as a Business

- Measures needed

### 3. Media Ethics

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

### 4. Business Ethics

- Principles of Business Ethics
- Dimensions related to Business Ethics in Organisation

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

## 5. Ethics Related to Economic Sanctions

- Why Economic Sanctions placed?
- Ethics in Economic Sanctions

## 6. Refugees & Ethics

- Why Migration occurs?
- Case study of Syria
- Dilemmas related to Refugee crisis
- Rohingya Crisis

## 7. Ethical Dilemmas of Globalization

- What is Globalization
- Free trade in Globalized world
- Issues with Newly Developed Trade Patterns
- Criticism against global regime

## 8. Ethics of War

- Ethics and War theories
- Evils of war

## 9. Environmental Ethics

- Linkage between Ethics and Environment

- Theories related to Environmental ethics ...
- Role of individual and society at large

## 10. Ethical Issues in Biotechnology

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

## 11. Animal Ethics

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

## 12. Food Adulteration and Ethics

- Ethical dimension
- Ethical issue related to food additive

## 13. Abortion: Ethical or Unethical

- Law of abortion in India
- Recent Supreme Court verdict
- Ethical Issue: Health of Women vs. foetus
- Justification for abortion - Argument against abortion
- Abortion and women rights
- Abortion and father rights
- Honour Killing
- Role of khap Panchayats

## 14. Marital Rape

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

## 15. Child Labour

- Rights of children
- Child labour and company

- Role of consumer

## 16. Ethical Issues Involved in Juvenile Justice System

- Negative implications
- Ethics and Old Age
- Ethical issues
- Issues faced
- Importance of autonomy

**MAINS TEST**

**ETHICS - 4: REVISION TEST**  
(COMPLETE SYLLABUS)

**MAINS TEST**

**ESSAY MOCK TEST - 3**

**INTERNATIONAL  
RELATIONS +  
WORLD HISTORY  
(SUB TOPIC LISTING)**



## APPROACH CLASS (INTERNATIONAL RELATIONS & WORLD HISTORY)

### MAINS TEST

### INTERNATIONAL RELATIONS-1

#### UPSC SYLLABUS

- India's Foreign Policy
- India and its neighbourhood- relations
- Regional Groupings
- India and Extended Neighbourhood
- West Asia/Middle East

### 1. India's Foreign Policy

- **Evolution and Challenges**
  - ▶ Evolution of India's foreign policy (Including NAM, Look East and Gujral Doctrine)
  - ▶ Determinants and challenges of India's Foreign Policy
- **Recent Policies**
- Neighborhood first policy
- Act east policy
- Link west policy
- Indian ocean outreach
- Soft Power and Hard Power diplomacy
- Defence and Nuclear Diplomacy
- Space diplomacy
- Para diplomacy-A New Way for Indian Foreign Policy?
- Middle Power Coalition
- Significance of PMO in foreign policy making
- India's Strategic Connect with the World
- Rise of Realpolitik in India's

Foreign Policy in recent times

- Indian Diaspora

### 2. India and Its Neighbours

- **India-China**
  - ▶ Border dispute
  - ▶ China's string of pearls
- China's Belt and Road Initiative: Prospects and Pitfalls
  - ▶ Maritime Silk Road" linking the Indian and Pacific Oceans
  - ▶ Why India is alarmed regarding BRI?
  - ▶ India's trade deficit with China
  - ▶ China's Malacca Dilemma
  - ▶ 2+1 Dialogue mechanism proposed by China
  - ▶ A rising China: Challenges the US primacy in Asia and role of India
  - ▶ Chinese project of diverting Tibetan waters
  - ▶ South China Sea: objection of China to India's presence
  - ▶ China denies CPEC backing as

'debt trap' for Pakistan (Debt trap diplomacy of China)

- ▶ The Unintended Consequences of India's Policy on Citizenship for Tibetan Refugees
- ▶ China's Economic Slowdown

#### ◉ India-Pakistan

- ▶ Indo-Pak Relations : Border Dispute and J&K issue
- ▶ Terrorism emanating from Pakistan
- ▶ Indus waters policy shift
- ▶ Dispute over Gilgit-Baltistan
- ▶ CPEC in PoK
- ▶ Nuclear India-Pak-US
- ▶ Indian stance regarding Baluchistan

#### ◉ India Bhutan

- ▶ Bhutan's significance for Indian Foreign policy
- ▶ India-Bhutan Friendship Treaty
- ▶ Objection of Bhutan to India's Motor vehicle agreement
- ▶ Bhutan's rejection of China's BRI

#### ◉ India-Nepal

- ▶ Indo-Nepal Relations : Fluctuating ties
- ▶ Nepal's tilt towards China
- ▶ Nepal-China Transit Agreement: An Evaluation
- ▶ India's concern about Nepal's new Constitution
- ▶ The Issue of Water and Hydropower Cooperation
- ▶ Nepal Bharat Maitri Project

#### ◉ India-Myanmar

- ▶ Democracy in Myanmar
- ▶ Scope for cooperation between N-E India & Myanmar
- ▶ Rohingya issue
- ▶ Buddhist Chauvinism
- ▶ Major Projects: Kaladan multi-modal corridor, India-Myanmar-Thailand trilateral highway

#### ◉ India-Bangladesh

- ▶ Indo-Bangladesh Relations
- ▶ Water Dispute Teesta water issue & Ganga river dispute
- ▶ Bangladesh demand to stop the construction of the Tipaimukh Hydro-Electric Power Project on the Barak River
- ▶ Differences in approach of India and China towards Bangladesh
- ▶ Illegal Immigration
- ▶ Understanding Bangladesh's Unexpected Development Success

#### ◉ India-Afghanistan

- ▶ Instability in Afghanistan and role of India
- ▶ India's cooperation in Afghanistan
- ▶ Moscow Format
- ▶ India-Maldives
- ▶ Geostrategic Importance of Maldives
- ▶ Recent developments in Maldives exemplifying recalibration of ties

- ▶ FTA Between China and Maldives - Warning For India
- ◉ **India-Sri Lanka**
  - ▶ Sino-Sri Lanka Relationship
  - ▶ Fishermen issue
  - ▶ Issues on 13<sup>th</sup> amendment (Tamil & Minority Rights)
  - ▶ Human Right violations & OHCHR Resolution on Sri Lanka
- ◉ **Indian Ocean Region**
  - ▶ Indian Ocean region and world affairs
  - ▶ India is a "Net Security Provider" of the Indian Ocean
  - ▶ Increasing Chinese influence in the Indian Ocean
  - ▶ 20 years of formation of IORA
  - ▶ Piracy in the Indian Ocean
  - ▶ Seychelles' parliament refusal to ratify an Indian naval base plan on the Assumption Island
  - ▶ Importance of Seychelles to India
- ◉ **Indo-Pacific**
  - ▶ Concept of Indo-Pacific from perspectives different countries
  - ▶ East Asia Summit acts as a bridge for Indo-Pacific region
  - ▶ India-Pacific Regional Dialogue
- ◉ **SAARC/BIMSTEC/BBIN**
  - ▶ SAARC: Challenges and Prospects
  - ▶ Intra-low regional trade

- ▶ BIMSTEC as an alternative to SAARC
- ▶ Nepal withdrew from first ever BIMSTEC's military drill in India.
- ▶ Progress of BBIN project
- ◉ **Global Issues**
  - ▶ Disarmament
  - ▶ Climate Change
  - ▶ Terrorism
  - ▶ Global Governance
  - ▶ Indian Diaspora

### 3. India and Extended Neighbourhood

- ◉ **India-Indonesia**
  - ▶ Indonesia's vision as a "Global Maritime Axis" and Its significance for India
- ◉ **India-Singapore**
  - ▶ India-Singapore Bilateral Agreement for naval cooperation
- ◉ **Thailand**
  - ▶ Indo-Thai relations: Challenges & opportunities
- ◉ **India-Vietnam**
  - ▶ India-Vietnam's strategic cooperation
- ◉ **India-ASEAN**
  - ▶ Importance of ASEAN in establishing peace and stability in region
  - ▶ ASEAN-India Relations: Prospects and Challenges in Economic Partnership

- ▶ India's cooperation with the ASEAN has been less than China and Japan

#### 4. Central Asia

- Connect Central Asia Policy
- Importance of central Asia
- Golden Crescent
- Connectivity Projects (INSTC, Ashgabat Agreement, TAPI Pipeline)
- **India Mongolia**
  - ▶ India-Mongolia Bilateral Cooperation
  - ▶ Mongolia launched construction of first strategically oil refinery, constructed by India

#### 5. West Asia/Middle East

- Importance of West Asia for India
- Change in West Asian strategic thinking
- China's engagement in West Asia and challenges to India
- Reasons behind India's active strategic engagements with

West Asian countries without participating in West Asian turmoil

- Shia-Sunni wedge in West Asian countries
- Importance of Saudi Arabia, Challenges in India-Saudi Arabia Relations
- Plight on Indian migrant workers.
- Relations between India and United Arab Emirates
- Middle East to India Deep water Pipeline (MEIDP)
- **India-Iran**
  - ▶ Consolidating India-Iran Cooperation
  - ▶ Connectivity- Importance of Chabahar port
  - ▶ Iran nuclear deal: Iran Sanctions & India's Options
- **India Israel:**
  - ▶ From 'in the closet' into a fast-developing open relationship
  - ▶ strategic significance of the Indo-Israeli relationship
  - ▶ De-hyphenation of Israel and Palestine

### MAINS TEST

## INTERNATIONAL RELATIONS-2

### UPSC SYLLABUS

- India and the World
- Global groupings
- Global Issues
- Effect of policies and politics of developed and developing countries on India's interests, Indian Diaspora
- Important International institutions, agencies and fora-their structure, mandate

## 1. India and World

### ◉ India-Africa

- ▶ India-Africa Trade relations: Prospects
- ▶ Contribution of Indian Diaspora in various fields in Africa.
- ▶ African co-operation in ensuring security and peace in Indian Ocean region
- ▶ India's Foreign Direct Investment (FDI) in Africa's hydrocarbon sector.
- ▶ Strategic Partnership between India and South Africa

### ◉ India-Europe

- ▶ The first India-Nordic Summit
- ▶ What is GDPR? its implication for India
- ▶ influx of refugees into Europe
- ▶ irritants between India-EU (FTA)
- ▶ A new European Union strategy for India
- ▶ Ukrainian Crisis' has lead to resurgence of cold war
- ▶ Brief on India-UK relations
- ▶ Brief on India-France relations

### ◉ India and USA

- ▶ Brief of India-US relations
- ▶ Mutually supportive Defence cooperation relationship
- ▶ logjams in implementation of civil nuclear cooperation agreement between India and the USA

- ▶ Bilateral Social Security Agreements
- ▶ The rise of protectionist regime in USA and the challenges for the Indian
- ▶ Importance of New Security strategy (NSS) of USA for India
- ▶ Recent US extraterritorial Sanctions and their potential impacts on India
- ▶ Potential impact of US sanctions towards Russia, Iran and North Korea using CAATSA on US-India relation,
- ▶ USA pulls out of INF treaty-Its implication for India
- ▶ Pivot to the East policy of the USA
- ▶ The Arithmetic of India-U.S. Relations and the Russian Factor
- ▶ The First India-US 2+2 Dialogue: An Assessment
- ▶ Challenges in Implementing JCPOA after the US Withdrawal
- ▶ LEMA-Logistics Exchange Memorandum of Agreement
- ▶ Visa, Free Trade and WTO

### ◉ India-Canada

- ▶ Uranium Deal

### ◉ India-Russia

- ▶ India's increasing defence deal with USA, Israel
- ▶ Russian arms deal with Pakistan
- ▶ Stagnation between India-Russia Relations
- ▶ Russian proposal of 'Eurasian Economic Union

- **India-Japan**

- ▶ Japan's funding of major projects in India
- ▶ Nuclear Pact
- ▶ Japan's Pacifism
- ▶ 13th annual India - Japan summit

- **India-Australia**

- ▶ Australia's "An India Economic Strategy to 2035", a vision document
- ▶ Nuclear cooperation between India-Australia

## 2. International Organisation and Global Issues

- **United Nation and UNSC**

- ▶ UNSC Reforms : Importance and Challenges

- **BRICS**

- ▶ Advantages of setting up the New Development Bank
- ▶ Prospects and Challenges of BRICS

- **Commonwealth**

- ▶ Shared history of Commonwealth
- ▶ Relevance in current time and Areas of Cooperation

- **Shanghai Cooperation Organization**

- ▶ Benefits and challenges of India's entry in SCO

- **IMF – The International Monetary Fund:**

- ▶ issues concerning the reforms

in Bretton Wood twins and needs structural reforms to reflect post globalization realities of the world

- **NATO – The North Atlantic Treaty Organization:**

- ▶ Relevance of NATO in post USSR era

- **TPP – The Trans-Pacific Partnership:**

- ▶ Will RCEP prove to be a competitor of TPP in the Asia-Pacific region

- **WTO – The World Trade Organization:**

- ▶ Doha round and Singapore Agenda: Challenges in implementation
- ▶ USA-India dispute
- ▶ Need to revamp WTO

- **Arctic Council:**

- ▶ Arctic is attracting global interest

- **IAEA**

- ▶ India's nuclear facilities under IAEA safeguards

- **UK Referendum – Brexit**

- ▶ consequences of Brexit for United Kingdom and European Union,
- ▶ effect of Brexit on China and India

- **Refugee problem:**

- ▶ Does the world need a new UN convention on refugees
- ▶ United Nations member states



(except the U.S. and Hungary) agreed on a Global Compact for Migration to better manage international migration

## ◉ Terrorism

- ▶ Reasons of rise of far right wing politics in many developed and developing countries
- ▶ the Comprehensive Convention on International Terrorism (CCIT)
- ▶ UNSC's 1267 Al Qaeda Sanctions Committee on Jaish-e-Mohammad Chief Masood Azhar
- ▶ Security Council Resolution 2322 to enhance the efficacy of international legal and judicial systems
- ▶ Lone-wolf attacks.

## ◉ Yemen Crisis

- ▶ Yemen Crisis: Reasons and impacts

## ◉ South China Sea

- ▶ Contention over South China Sea and South China Sea Ruling
- ▶ Senkaku and Diaoyu conflict between China and Japan
- ▶ Role of India in the wake of increasing South China Sea dispute

## ◉ Other

- ▶ World coming towards a new multi-polar order with USA as a waning superpower and China-

Russia axis as an emerging challenger

- ▶ India and the International Solar Alliance
- ▶ Venezuela-Columbia Border Issue
- ▶ AIIB & The Changing World Order
- ▶ Multilateral export control regimes : Significance and challenges of India's Entry
- ▶ US-Venezuela Stand-off : Impact on Global Oil Prices
- ▶ Renaissance and Reticence in India's North- South Connectivity Platform
- ▶ Strategic Petroleum Reserves: Stocking Oil for Rainy Days
- ▶ QUAD: Strategic and economic benefits
- ▶ India has been accorded associate member status by IEA, Its importance for India
- ▶ Why RIC is as important to India as JAI and BRICS?
- ▶ Rising Protectionism and Currency Wars

## ◉ Indian Diaspora

- ▶ Role played by Indian Diaspora
- ▶ Issue of safety of Indians abroad
- ▶ Schemes for Welfare of Overseas Indian
- ▶ Indian Diaspora in Gulf
- ▶ Nitaqat law and Present Status



**MAINS TEST****WORLD HISTORY****UPSC SYLLABUS**

- History of the world will include events from 18<sup>th</sup> century such as industrial revolution, world wars, redraw of national boundaries, colonization, decolonization.
- Political philosophies like communism, capitalism, socialism, etc. their forms and effect on the society.

**1. Industrial Revolution**

- Decline of feudalism
- Beginning of Renaissance
- Pre-industrial Europe
- Factors that led to industrial revolution and its Impact

**2. French Revolution**

- Causes of the revolution in France
- France under Napoleon
- Impact and Significance of revolution

**3. Nationalism in Europe**

- Rise of the nation- state system
- Unification of Italy and Germany
- Colonialism and Imperialism

**4. Colonialism and its Analysis**

- The age of Imperialism (1870-1914)
- Imperialism in Asia

**5. Emergence of USA**

- Foundation of American Colonies
- The Independence of USA
- The American Revolutionary War and its impact

- Political Effects of the Revolution
- How did the American Revolution influence the French Revolution?

**6. World War-I**

- Causes and Course of the war
- Consequences of World War I
- Aftermath of World War I
- League of Nations

**7. Russian Revolution**

- Major events in pre-revolution Russia
- Causes and Course of revolution
- Consequences and Aftermath of the War
- Post-Lenin Russia

**8. Inter-War Years (1919 to 1939)**

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

**9. World War- II**

- Causes &Course of the war

- Aftermath & Analysis of the war
- Decolonization Phase

## 10. Development In Middle East

- Democratic reforms in Middle East
- Arab nationalism
- Israel and Palestine

## 11. Cold War Era

- Impact in India
- Indian Policy

## 12. Post Cold-War World

- Global issues since 1991
- Integration of Europe
- Rise of global Islamic terrorism
- Rise of China

## 13. Communism, Socialism and Capitalism

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

**MAINS TEST**

**IR + WORLD HISTORY REVISION TEST**  
(COMPLETE SYLLABUS)

**PRELIMS TEST**

**CURRENT AFFAIRS - 1**  
(JANUARY, 2023 - APRIL, 2023)

# **GOVERNANCE & SCHEMES**

## **(SUB TOPIC LISTING)**

## APPROACH CLASS (GOVERNANCE & SCHEMES)

### PRELIMS TEST

### GOVERNANCE & SCHEME

- Governance + Socio economic development + Reforms + Bills + Welfare Schemes + Policies

#### 1. Social Sector Bills

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

#### 2. Health

- National Health Mission
- National Ayush Mission
- Jan Aushadhi Scheme

- Mission Indradhanush

- NFHS-4 survey

#### 3. Education

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

#### 4. Start-up and Skill Development

- Start Up India Scheme
- Stand up India Scheme
- National Student Start-up Policy
- National Skill Development Mission
- Pradhan Mantri Kaushal Vikas Yojana
- DeenDayal Antyodaya Yojana
- Skill Development Initiative Scheme
- Self-Employment & Talent Utilisation (SETU)
- Atal Innovation Mission

#### 5. Vulnerable Sector

- Social Security
- Atal Pension Yojana

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

## 6. Rural and Urban Development

- Sansad Adarsh Gram Yojana
- Gram Uday Se Bharat Uday Abhiyan
- Shyama Prasad Mukharjee Rurban Mission
- Deendayal Upadhyaya Gram Jyoti Yojana
- Pradhan Mantri Gram Sadak Yojana
- Swachh Bharat Abhiyan
- Pradhan Mantri Awas Yojana-Gramin

- Pradhan Mantri Awas Yojana - Urban
- Housing for all by 2022
- Smart Cities Mission
- Hriday - National Heritage City Development and Augmentation Yojana
- Amrut (Atal Mission for Rejuvenation and Urban Transformation)

## 7. Inclusive Growth

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

## 8. Rural Development

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

## 9. Miscellaneous Schemes

- Digilocker
- Bharatnet Project (National Optical Fibre Network)
- INSPIRE (Innovation in Science Pursuit for Inspired Research)
- SAKAAR
- Digital India
- Namami Gange Project (Integrated Ganga Conservation Mission Project)

- Ganga Gram Yojana
- Khelo India
- PRAGATI (Pro-Active Governance and Timely Implementation)
- Indian Community Welfare Fund (ICWF)

## Governance + Reforms + Bills + Policies

### 1. Elections in India

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

### 2. Political parties in India

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

### 3. Governing Institutions in India

- Structure of Ministries/ departments

- Political head
- Secretariat organization secretary
- Functions of the secretariat
- Functions of attached and subordinate office
- Other organizations
- Constitutional bodies
- Statutory bodies
- Autonomous bodies
- Public sector undertakings
- The Executive organization
- Advantages of the separation of secretariat and executive organization.
- Strengths and weaknesses of the existing structure
- Recommendations for improving the Organizational structure

### 4. Role of Pressure Groups

- Types of pressure groups
- Role of pressure group in developing countries
- Functions of pressure groups in India
- Pressure groups methods
- Pressure groups and Democracy
- Criticism of pressure groups
- Role of SHG, NGOs, Civil Society
- SHGs
  - Characteristics
  - Role of SHGs in Development
- NGOs
  - Functions
  - Role of NGOs in Development
- Micro Finance Institutions
  - Salient features
  - Role of MFIs in development

**MAINS TEST****GOVERNANCE & SOCIAL ISSUES - 1****UPSC SYLLABUS**

- Important aspects of governance, transparency and accountability, e-governance applications, models, successes, limitations, and potential;
- Citizens charters, transparency & accountability and institutional and other measures.
- Role of civil services in a democracy.
- Government policies and interventions for development in various sectors and issues arising out of their design and implementation.

**1. Governance**

- Concept of Good Governance
- Issues Concerning Governance
- Right Based Approach in Policy Making
- Public Policy Making and Policy Implementation
- How to Establish Good Governance

**2. Transparency & Accountability**

- **Right to Information**
  - Information sharing and transparency in government
  - RTI and Official Secret Act: Who's winning and why
  - Judiciary wants to remain isolated
- **Citizen's Charters**
  - Benefits of Citizen Charter
  - Citizen Charter in India: An Evaluation
  - Problems Faced in Implementing the Charters
  - Steps to improve Citizen

**Charters**

- Indian Approach to Citizen Charter: Sevottam Model
- Administrative Reforms Commission's Seven Step Model for Citizen Centricity
- Right to Service

- **Extent of regulations and openness of media and social networking sites**

- T.K. Visanathan Committee On Hate Speech
- Role of MEDIA in bringing Transparency and Accountability
- Social Media and Accountability
- e-Governance
  - Role of E-Governance in bringing Transparency and Accountability
  - Major E-Governance Projects and challenges in their implementation

- **Role of civil services in a democracy**



- ▶ Linkage of Civil Services and Democracy
- ▶ Debate on Lateral Entry in Civil Services
- ▶ Relation between Civil Servants and Political Executives
- ▶ Performance Appraisal System in Bureaucracy
- ▶ Reforms Needed In Indian Bureaucracy
- **Codes of Ethics and Code of Conduct**
  - ▶ Paid news abuse by social media a poll menace
  - ▶ Model code of conduct
- **Utilization of Public funds**
  - ▶ Significance of Public Accounts Committee
  - ▶ Challenges of corruption and incompetence

### 3. Regulatory Structure and Governance Reforms

- **Functions and responsibilities of various Bodies**
  - ▶ Analysis of Autonomy and functioning of CAG, CBI, CVC and NHRC
  - ▶ Lokpal and rise of Ombudsman era: a critical evaluation of journey traveled so far
  - ▶ State and operational effectiveness of Local governments in India
  - ▶ Corporate Governance in India - Why is it so critical
  - ▶ Police Reforms in India
  - ▶ Curb On VIP Culture
- **Prison Reforms in India**
- **Improving Governance In Public Systems**

## MAINS TEST

### GOVERNANCE & SOCIAL ISSUES - 2 UPSC SYLLABUS

- Development processes and the development industry the role of NGOs, SHGs, various groups and associations, donors, charities, institutional and other stakeholders.
- Welfare schemes for vulnerable sections of the population by the Centre and States and the performance of these schemes; mechanisms, laws, institutions and Bodies constituted for the protection and betterment of these vulnerable sections.
- Issues relating to development and management of Social Sector/Services relating to Health, Education, Human Resources.
- Issues relating to poverty and hunger.

### 1. DEVELOPMENT PROCESSES AND THE DEVELOPMENT INDUSTRY

- Role of Self Help Group in Development
- Shortcomings and Recommendations to Improve

### Self Help Group

- Role and functions of NGOs in the Development
- Challenges Faced by NGOs in India
- Issue of Fund Mismanagement
- Role of Microfinance Institutions in Development Process
- Issues Related to Microfinance Institutions and Recommendations
- Role of Foreign aid in Development
- The role and function of pressure groups in India
- Changing Pattern of Pressure
- Group Politics in India

## 2. Socio-Economic Development

### ◦ Concept of Human Development

- Economic Growth and Human Development: Two-Way Link
- Measurement of Human Development

### ◦ Understanding Poverty

- Dimensions of Poverty
- Linkage between Poverty and Development
- Recommendations of Rangarajan Committee Report
- Poverty Alleviation Strategy Since Independence
- Programmes for Poverty Alleviation
- Concept of Inequality
- World Inequality Report 2018: Findings of the Report
- Income Inequality in India

- Recommendations to Reduce Inequality

### ◦ HUNGER

- Manifestations of Hunger and its causes
- Challenges to Food Security
- Global Hunger Index Report, 2018
- Recommendations
- Institutional Measures for Welfare of Vulnerable Sections
- Issues Related to the Weaker Sections & Vulnerable groups in India
- Constitutional Provisions for the Welfare of Society
- Institutional Measures for the Welfare of the Society
- Issues with the Institutional Mechanisms

### ◦ HEALTH

- Public Health System of India
- Shortcomings of the Healthcare Sector
- Urgency of achieving Universal Health Coverage
- Evaluation of SWACHH BHARAT MISSION
- Global Nutrition Report 2018
- Initiatives Taken In Health Sector : Ayushman Bharat
- National Health Policy

### ◦ EDUCATION

- Challenges of Education sector in India
- Right to Education and Challenges to EWS Children
- Initiatives by Government

### 3. Role of Civil Services in a Democracy

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

### 4. Pressure Groups and Formal/Informal Associations and their role in the Polity

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

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

- **Appointment of CAG (procedure of appointment)- composition of CAG**
  - ▶ Functions and responsibilities

of CAG

- ▶ Powers and privileges of CAG (provided by constitution and different Acts of Parliament.

- **Appointment of ECI (procedure of appointment)- composition of ECI**

- ▶ Functions and responsibilities of ECI
- ▶ Powers and privileges of ECI (provided by constitution and different ACTs of Parliament)

- **Appointment to UPSC (procedure of appointment)- composition of UPSC**

- ▶ Functions and responsibilities of UPSC
- ▶ Powers and privileges of UPSC (provided by constitution and different ACTs of Parliament.)

- **Appointment to Finance commission (procedure of appointment)- composition of Finance commission**

- ▶ Functions and responsibilities of Finance commission
- ▶ Powers and privileges of Finance commission (provided by constitution and different ACTs of Parliament.)

- **National commission for SCs and STs.**

### 6. Statutory, regulatory and various quasi- judicial bodies

- SEBI , CVC , CBI, Planning CommissionNDC, PMO
- TRAI, IRDA
- National Human Rights

### Commission

- State Human Rights Commission
- Central Information Commission
- State Information Commission
- National Consumer Disputes Redressal Commission
- Medical Council of India
- Pension Fund Regulatory and Development Authority
- Biodiversity Authority of India
- Press Council of India
- Forward Markets Commission
- Inland Waterways Authority of India
- Role of CAG
- 14<sup>th</sup> Finance Commission: Analysis
- 7<sup>th</sup> Pay Commission Report and Repercussions
- AFSPA and Second ARC
- Inter-State River Water Dispute: Cauvery dispute
- Role of NitiAayog

**PRELIMS TEST**

**SOCIETY & GOVERNANCE AND  
SOCIAL JUSTICE REVISION TEST  
(COMPLETE SYLLABUS)**

**INTERNAL  
SECURITY +  
PIC  
(SUB TOPIC LISTING)**

## APPROACH CLASS (INTERNAL SECURITY)

### MAINS TEST

### INTERNAL SECURITY-1

#### UPSC SYLLABUS

- Linkages between development and spread of extremism
- Role of external state and non-state actors in creating challenges to internal security.
- Challenges to internal security through communication networks,
- The role of media and social networking sites in internal security challenges, basics of cyber security;
- Challenges to internal security through communication networks

### INTERNAL SECURITY CHALLENGES IN INDIA

#### 1. Internal Security Challenges

- Social Diversity as Issues of Security Threat
- Challenges from within India
- Neighbors as Issue of Security Threat:
  - Pakistan
  - China
  - Myanmar
  - Bangladesh
  - Bhutan
  - Nepal
  - Sri Lanka
- 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. INSURGENCY IN NORTH-EAST

- Introduction
- Issues & Conflicts
- Assam Insurgency

#### 3. Basics of Cyber Security

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

#### 4. Cyber Warfare

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

- Cyber Warfare
- Way Ahead

## 5. Social Media and Internal Security Threat

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

### MAINS TEST

## INTERNAL SECURITY-2

### UPSC SYLLABUS

- Money-laundering and its prevention.
- Security challenges and their management in border areas;
- Linkages of organized crime with terrorism.
- Various Security forces and agencies and their mandate; Other security issues
- Governance issues related to internal security

### 1. Terrorism Threat to India

- Changing face of Terrorism
- Terror Threats Faced by India
- Broader Framework to Deal with Terrorism

### Management

- Community Participation for Border Management

### 2. Organized Crime

- Types of Organized Crime
- Problems in controlling organized crimes
- Combating organized crimes
- Linkage of Terrorism and Organized Crime in India
- Linkage between Development and Spread
- Why naxalism is biggest threat to internal security?

### 4. Money Laundering

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

### 3. Security Challenges in Border Areas

- Challenges to Border Management
- Issues Faced in Border

### 5. Black Money in India

- Parallel Economy in India
- Measures taken to curb Black Money?
- Demonetization for curbing black money
- Impact of demonetization on black money
- Criticisms

### SECURITY FORCES AND THEIR MANDATE



**1. Police Reforms in India**

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

**2. Various Security Forces and their Mandate**

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

**3. Role of Army in Internal Security**

- Strategic Perspective: Why role of Military has become important?
- National Context
- The Indian Army's Response
- Structural Adaptation
- Doctrinal Development
- Leadership Adaptation
- Long-term Perspective

**GOVERNANCE ISSUES RELATED TO INTERNAL SECURITY****1. Threats, Challenges and Vulnerabilities in**

- 21 Century
- Introduction
- China: The Long-term Challenge
- Managing the China-Pakistan Collusion
- Nuclear, Biological and Chemical Threat
- Aerospace Threats
- Maritime Security
- Natural Resources
- Conflict over Water
- Energy Security
- Global Warming
- Indian Diaspora
- Economic Warfare

**2. Impact of Governance and Justice Delivery System on Internal Security**

- Importance of Good Governance in Internal Security
- Reforms Needed

**3. National Security Mechanism**

- Improving Policing and Intelligence
- Resolving Centre-State Issues in Managing Internal Security

**4. Issues in Intelligence Services**

- Response Mechanism in India

- What are the Major INTELLIGENCE Challenges?
- Steps to tackle the flaws
- What are the probable measures to improve Intelligence Services in India?
- How to Create These Capabilities?

## 5. Strategy for Coastal and Offshore Security

- Different Facets of Maritime Security

- Different Reporting Mechanism for Handling Security
- Importance of Coastal Community Participation

## 6. Make in India in Defence

- Present Scenario
- Make in India in Defense
- Government Policy
- Strategy for Indigenization
  - ▶ Skill Development
  - ▶ Technology acquisition

## MAINS TEST

## PIC (POST INDEPENDENCE CONSOLIDATION)

### UPSC SYLLABUS

- Post-Independence Consolidation and Reorganization within the Country

## 1. Challenges before India after Independence

- Communal Riots and Regions most affected
- Partition and then Independence: Punjab, Bengal and Assam, Sindh
- Radcliffe Commission and challenges before boundary commission
- Radcliffe Commission and its composition
- Challenges before the Boundary Commission
- Drawbacks of Commission
- Division of sources
- Finances
- Defence personnel and equipment

- Civil government
- Assassination of Gandhi
- Resettlement and Rehabilitation of Refugees
- Shift to Constitutional Democracy
- Challenges after Independence

## 2. The Indian States

- Policy of Equal Federation (1935-1947)
- Plan of consolidation
- Integration of Princely States: Junagadh, Kashmir and Hyderabad
- Aftermath of Integration
- Goa and Pondicherry
- Tribal Integration
- Roots of India Tribal Policy

- Reasons for dismal performance of Tribal Policy
- Positive Development happened due to state's Initiative since 1947
- Issue of language
- The Official Language
- Features of Official Language Act

### 3. Framing of the Constitution of India

- Evolution of the Constitution and main provisions
- Steps to the Constitution
- Constitutional Developments
- The Indian Constitution: Main Provisions
- The Constituent Assembly
  - Formation
  - Compulsions and Issues in front of Assembly

### 4. From Colony to Democracy

- Challenge of building democracy
- Challenges before ECI and conduction of first general election
- Starting of one party dominance
- Dominance of Congress System
- Nature of Congress Dominance
- 1967 elections
- Split in the Congress
- Emergence of Opposition Parties
  - Role of opposition parties
  - Various opposition parties

### 5. Economic Consolidation

- Economic Development and Planning

- Ideas of Development
- Planning
  - Formation of Planning Commission
  - First five year plan
  - Second five year plan
  - Achievements of Plans from 1947 to 1965
  - Key controversies regarding 5 year plans
- Green Revolution
  - Prevailing Conditions before the introduction of Green Revolution
  - Initiatives prior to Green Revolution to boost Agriculture
  - Government's other positive initiative during Green Revolution Period
  - Positive and negative impact of Green Revolution
- Operation Flood and Cooperatives
- Formation of Amul
- Starting and impact of Operation Flood
- Limitations of Co-operativization
- Development of land reforms in India between 1947 and early 1960's
- Abolition of intermediaries
- Tenancy reforms
- Ceiling on land holdings
- Bhoodan Movement
- Aims and advantages of Bhoodan movement

## 6. India's External Relations

- Evolution of India's Foreign Policy
- Strategic Issues
- Features of Indian Foreign Policy
- Emergence of NAM and its Summits
- Organizational structure & membership
- India and its neighbours
  - India and China
  - India and Pakistan (Indo-Pak War, Kargil War, Shimla Agreement, Tashkent Declaration and Agra Summit)
  - India and Bangladesh (creation of Bangladesh)
  - India and Sri Lanka
  - India with Nepal and Bhutan
  - India's relations with two countries of Bipolar world: USA and USSR
- Analysis of Nehruvian Foreign Policy

## 7. The Crisis of Democratic Order

- The JP movement and Emergency 1975-77: Testing of Indian democracy tested
- Background to emergency (Economic context, Gujarat and Bihar movements, Conflict with Judiciary)
- Declaration of emergency (Crisis and Response)
- Controversies regarding emergency
- Lessons from emergency
- Politics after Emergency (LS

elections 1977 and Janata Party)

- The Opposition: Initial years of BJP
- The Naxalite Movement
- Communalism
- Secularism and democracy
  - Ayodhya dispute: Demolition and after
  - Communalism and use of state power
  - Revival and growth of communalism
  - Anti-muslim riots in Gujarat
  - The Punjab Crisis
  - Operation Blue Star
  - Demand of Khalistan
- Basis of Regionalism: Politics in the states
  - Roots of tension
  - Challenges of Regionalism
  - Tamil Nadu (Dravidian Movement), Andhra Pradesh, Assam, West Bengal and J&K (external and internal disputes)
  - Secessionist movement in North-Eastern states
- Accommodation and National Integration

## 8. Popular Movements

- Nature of Popular Movements
- Environment Movements
- Chipko Movement
- Narmada Bachao Andolon (Sardar Sarovar Project, Debates and struggles)
- Party based Movement and Non-

- party based movements
  - Caste, Untouchability, Anti-caste politics and strategies
  - Issues of Dalit
    - ▶ Dalit panthers: Origin and their activities
  - Agrarian Struggles
    - ▶ Bharatiya Kisan Union: Growth and its characteristics
    - ▶ National Fish Worker's Forum
    - ▶ Anti-Arrack Movement: Origin and its linkage
  - Indian Women since Independence
  - Lesson from popular movements
- 9. Recent developments in Indian politics**
- Context of the 1990s
  - Era of Coalition
  - Decline of Congress
  - Alliance politics
  - Political Rise of other Backward Classes
  - Mandal Implemented: The Mandal Commission
  - Political fallouts
  - NEP-1991, LPG policy, Tax reforms, Privatisation, globalisation and ICT
  - Nuclear policy
  - Emergence of new consensus
  - LS elections 2004
  - Terrorist troubles and relations with pakistan

**MAINS TEST****INTERNAL SECURITY + PIC REVISION TEST**  
(COMPLETE SYLLABUS)

**SCIENCE &  
TECHNOLOGY  
(SUB TOPIC LISTING)**

## APPROACH CLASS (SCIENCE &amp; TECHNOLOGY)

## PRELIMS TEST

## SCIENCE &amp; TECHNOLOGY

- Complete Syllabus (Fundamentals Of Science: Biology + Everyday Science + Biotech + Health + Defence + Space + IT + Telecom + IPR + Nanotech + Robotics + Nuclear Tech)

## BIOLOGY

## 1. Chemical Building Blocks of Life

## 2. History and Origin of Life

## 3. Cells

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

## 4. Genetics

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

## 5. Classification of Living Things

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

## 6. Tissues

- Epithelial tissue
- Connective tissue
- Muscle tissue

## 7. Economic Zoology

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



## 8. Endocrine system

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

## 9. Respiration

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

## 10. The Transport System in Organisms

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

## 11. Skeletal and Muscular Systems

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

## 12. Reproduction

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

- Sexual Reproduction in Animals
- Sexual Reproduction in Humans

## 13. Excretion, Osmoregulation and Thermoregulation

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

## 14. Nutrition

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

## BIOTECHNOLOGY

### 1. Genetics and Biotechnology

- Industrial genetics
- Protoplast and cell fusion technologies
- Genetic engineering
- DNA sequencing
- Nucleic acid probes
- Genomics and proteomics
- Antisense and RNA interference
- Potential laboratory biohazards of genetic engineering
- Bioprocess/fermentation technology

## 2. Biological Fuel Generation

- Global warming and the significance of fossil fuels
- Photosynthesis: the ultimate energy source
- Biofuels from biomass
- Bioethanol from biomass
- Biodiesel
- Methane
- Hydrogen

## 3. Environmental Biotechnology

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

## 4. Plant and Forest Biotechnology

- Plant biotechnology
- Forest biotechnology

## 5. Animal and Insect Biotechnology

- Genetic manipulation and transgenic animals
- Genetically engineered hormone and vaccines

- Animal organs for human patients
- Genetically modified insects

## 6. Food and Beverage Biotechnology

- Food and beverage fermentations
- Microorganisms as food
- Enzymes and food processing
- Amino acids, vitamins and sweeteners
- Organic acids and polysaccharides
- Public acceptance and safety of new biotechnology foods
- Biotechnology and medicine
- Pharmaceuticals and biopharmaceuticals
- Antibiotics
- Vaccines and monoclonal antibodies
- Biopharmaceuticals/therapeutic proteins
- Pharmacogenetics
- Molecular biology and human disease
- Diagnostics in developing countries
- Gene therapy
- Systems biology and medicine
- Stem cell biotechnology

## 7. Protection of Biotechnological Inventions

- Patent protection Trade secrets
- Plant breeders' rights

## INSTITUTIONS & POLICIES

- India's policy in the field of the science and technology
- The S&T policy resolution in 1958
- S&T policy of the 1983
- S&T policy of the 2003
- S&T policy 2013
- Institutional structure
- Department of Science & Technology
- CSIR
- Survey of India
- Science and Engineering Research Council
- Technology Development Board
- National Accreditation Board For Testing And Calibration Laboratories
- Science and technology as a source of Human Resource Development
- Awards related to Science
- New Initiatives Aligned with the National Agenda
- India and World collaboration in science projects
- Technology Vision Document 2035
- National Biotechnology Development Strategy 2015- 2020
- National Intellectual Property Rights Policy
- Organ donation rules in India
- Policy on Synthetic Biology

## SPACE

- Types of orbits
- Launch Vehicle
- Satellite communication in India
- INSAT Satellite application
- Remote sensing applications
- Cryogenic rockets
- Global Positioning System
- Galileo
- GLONASS
- IRNSS
- GAGAN
- Chandrayaan – I & II
- Mars Orbiter Mission
- Space Organisations
- Space race/Space junk
- Recent updates
- South Asia Satellite: Significance
- Neutrino Observatory
- Solar Mission- ADITYA
- Gravitational Waves

## DEFENCE

- Missile system and classification
  - On the basis of type
  - On the basis of launch vehicle
  - On the basis of Range
  - On the basis of propulsion system
- India's Missile System
  - Agni

- Prithvi
- Trishul
- Nag
- Dhanush
- Astra
- Prahaar
- ◉ BrahMos Missile System
- ◉ Indian Submarines and Naval Ships
- ◉ Light Combat Aircraft
- ◉ Unmanned Aerial Vehicle
- ◉ Stealth technology
- ◉ Chemical Weapon
- ◉ Biological Weapon
- ◉ NASA confirms Saturn's rings will be gone in million years
- ◉ New Source of Neutrinos in Space discovered
- ◉ Earth has three moons
- ◉ China unveils 'Heavenly Palace' space station
- ◉ The International Space Station (ISS) is celebrating its 20th birthday
- ◉ Remove DEBRIS
- ◉ The case for making Pluto a planet again
- ◉ Icarus- farthest star
- ◉ Cosmic Microwave Background Radiation (CMBR)
- ◉ Green Propellant
- ◉ Plan to Prevent Asteroid Attack
- ◉ Cooperation in the peaceful uses of outer space
- ◉ 'EPIC' planet
- ◉ Interstellar Mapping and Acceleration Probe
- ◉ Atacama Large Millimeter/submillimeter Array
- ◉ High Resolution Imaging Science Experiment
- ◉ GLONASS of Russia
- ◉ Pakistan's remote sensing satellites PRSS-1 and PakTes-1A
- ◉ Atacama Large Millimeter Array (ALMA)
- ◉ World's fastest man-made spinning object
- ◉ India-Based Neutrino Observatory
- ◉ Human space flight Programme
- ◉ NASA's Kepler Space Telescope retired

## RECENT DEVELOPMENTS

### 1. Space Technology & Events

- ◉ ISRO's Mission/Programme:
- ◉ NASA's Mission/Programme:
- ◉ Other Agencies Missions
- ◉ Point Nemo
- ◉ Exoplanet
- ◉ 'Super-Earth' in Constellation Cassiopeia
- ◉ Galaxy Proto-Supercluster – Hyperion
- ◉ Einstein's Theory of Relativity
- ◉ Einstein's theory
- ◉ Sun's gravity
- ◉ Einstein Ring
- ◉ Sunspot Cycle
- ◉ Method to simulate, predict solar activity over ten years developed
- ◉ ISRO is planning to mine Moon

- NASA Parker Solar Probe Mission
- Dwarf planet 'The Goblin' discovery
- Space X BFR lunar Mission
- Meteorite found in Rajasthan
- Unispace Nanosatellite Assembly & Training programme (UNNATI)
- The Lyrid meteor shower
- RAMA (Reconstituting Asteroids into Mechanical Automata)
- Uakitite
- Draft Space Activities Bill, 2017
- Resource Prospector Mission
- GRACE MISSION
- Gaofen – 11

## 2. Defence Technology

- India's Missile Development Program
- Prithvi Series
- Agni Series
- Akash
- Nag
- Man Portable Anti-Tank Guided Missile (MPATGM)
- Trishul
- Brahmos
- Ballistic Missile Defence System
- Prithvi Air Defence (PAD)
- Advanced Air Defence (AAD)
- K-15 Sagarika
- Dhanush
- Shaurya
- Nirbhay
- Prahaar
- Astra
- Pinaka Rocket

- Made in India' Artillery boost
- Advanced Towed Artillery Gun System (ATAGS)
- Rustom-2
- Offshore Patrol Vessel ICGS Varaha launched
- Vijaya: Indigenously built patrol vessel commissioned by Indian Coast Guard
- INS Chakra
- Scorpene Submarine Programme
- Maritime boundary
- Vehicle Location Tracking Devices and Emergency Buttons
- LCA TEJAS clears maiden mid-air refuelling trial
- India's first missile tracking ship
- Solid Fuel Ducted Ramjet (SFDR)
- Defence Innovation Hubs
- India's first indigenous anti-nuclear medical kit
- Defence Industry Corridor
- Bhabha Kavach
- Mission Raksha Gyan Shakti
- Intermediate Range Nuclear Forces Treaty, 1987

## 3. Health & Biotechnology

- Rare Diseases
- Thalassaemia
- Down Syndrome
- New Classification of Diabetes
- Maturity-Onset Diabetes of the Young (MODY)
- Lymphatic Filariasis
- New Influenza Research

### Programme

- Drug-resistant Superbug Spreading
- Zoonotic Diseases
- Nipah Virus
- Lassa Fever
- Nepal, first country in South-East Asia to Eliminate Trachoma
- Measles Rubella Vaccination
- Zearalenone, a fungal toxin
- Oxytocin
- WHO Publishes Essential Diagnostics List
- Generic Drugs: New Rules Soon for Labelling
- Fixed Dose Drug Combinations (FDCs)
- World's first Bio-electronic medicine
- 5<sup>th</sup> Global Forum on TB Vaccines
- Drug Eluting Stents
- Dual Mechanism for Embryonic Stem Cells to Maintain Pluripotency
- Scientists Grow Human Oesophagus in Lab
- Three-Parent Babies Permitted in UK
- New Sheep Insemination Technique
- Mass Embryo Transfer
- CRISPR Technology
- Telerobotic Surgery
- Bionic mushrooms
- Biosensor Technique to Detect Chikungunya Virus Mitra Clip
- Blockchain Technology in Drug Supply-chain
- Rosehip Neurons: The newest neuron in the human brain
- Nerve Agent
- WHO called for the Elimination of the so-called
- 'One Centimetre Per Hour' Benchmark
- Earth BioGenome Project
- 100k Genome Asia Project
- Human Microbiome
- Integrated Health Information Platform (IHIP)
- Eat Right India Movement
- Food Fortification
- Transgenic Rice with Reduced Arsenic Accumulation
- Fighting Fake Drugs through Blockchain
- Project Dhoop
- Eliminate Trans-fats by 2022
- New Norms for Labelling Packaged GM food
- Animal-Free Testing for Drugs
- Elysia chlorotica
- Quadrivalent Influenza Vaccine
- Fortified Rice
- Coloured X-Ray on Human
- 'P Null' Phenotype
- Bacteria Wolbachia
- Affordable Water Disinfection System- Oneer
- Bisphenol A (BPA)

## 4. IT, Electronics & Telecom

- Computers
  - Generation of computers
  - Computer terminologies
  - Supercomputer and its applications



- Information technology
  - Components of IT
  - IT enabled services
  - Application of IT
- Display Technologies
  - Cathode ray
  - LCD
  - LED
  - Plasma Monitors
  - OLED
- Telecommunications
- Mobile generations
- Smartfone
- Important Concepts
- Government initiatives
- Digital India Initiative
- MeghRaj
- Code Free for India
- E-Kranti
- Bharat Net project
- Bharat QR
- ☒ Contemporary debates
- Net Nuetrality
- Internet of Things
- Big Data Initiative and Privacy
- Cyber crime and security

## 5. Nano-Science & Nano Technologies

- What is Nanoscience and Nanotechnology?
- Origination of Nanoscience and Technology
- Basics of Nanoscience
- Nanomaterials
- Applications of nanotechnology

- Nano medicine
- Semiconductors and computing
- Food
- Textiles
- Sustainable energy
- Environment
- Transport
- Space
- Agriculture
- Adverse Health and Environmental Impacts of Nanotechnology
- Social and Ethical Impacts:
- Nano-science and nano-technology in India

## 6. Robotics

- What is Robotics?
- Machine vs Computer vs Robots
- Parts of a Robot
- Controller
- Manipulator
- End Effector
- Sensor
- Classification of Robots
- Rolling Robots
- Walking Robots
- Autonomous Robots
- Artificial Intelligence
- Advantages and Disadvantages of Robot
- Applications of Robotics
- Industrial Sector
- Aerospace
- Healthcare Delivery
- Outer Space



- Exploration
- Military Robots
- Disaster Areas
- Entertainment
- Agriculture
- Domestic work

## 7. Nuclear Energy

- Types of nuclear reactions
- Nuclear Power Reactor
- N-Power Policy of India
- Advantages of Nuclear Energy
- Disadvantages of Nuclear Energy
- Non-energy applications of Nuclear energy
- Impact of Radiation
- Issue of Radioactive Waste
- Institutions involved in Nuclear energy Development, AERB
- Safety standards in Nuclear Power plants
- Nuclear & Radiological Disasters

## 8. Recent Developments

### ◦ INFORMATION TECHNOLOGY & COMPUTERS

- Cyber-Physical System
- BullSequana Supercomputer
- National Supercomputing Mission
- Pratyush Computer
- SpiNNaker – World's Largest Brain – Like
- Supercomputer
- Shakti – India's first indigenous Microprocessor
- India's First Locally Developed

### 4G/LTE Telecom System

- 5G
- IIT – Delhi launches first 5G Radio Lab
- Open Transit Data Platform
- Three Factor Authentication
- Facial Authentication Working
- First in Asia: Facial recognition technology at
- Bengaluru airport
- Digital Sky Platform
- M2M'Communication
- Mobile Towers are harmless: CPCB
- Adoption of Blockchain Technology to Stop Bank Frauds
- India's First Blockchain District in Telangana
- NASSCOM unveils centre for Data, AI
- Mumbai to have India's First Artificial Intelligence Centre
- Model International Center for Transformative AI (ICTAI)
- Saposhi
- GravityRat Malware
- ToneTag
- World Congress on Information Technology
- NIFTEM
  - Scutoid: A New Shape Discovered
  - Concept of Living Will
- ALTERNATIVE TECHNOLOGIES
- Methanol as cooking fuel
- Gas Hydrates or Flammable Ice:

- World's first hydrogen train
- Repurposed Used Cooking Oil (RUCO)
- Hydrogen-CNG
- Europe's first solar panel recycling plant
- Bengaluru Maps its Solar Wealth
- Shakti Shala Solar Park
- Global Centre for Nuclear Energy Partnership
- Apsara – U Reactor
- Experimental Advanced Superconducting Tokamak (EAST)
- World's first Hyperloop passenger capsule unveiled
- Hyperloop between Mumbai and Pune
- Aerogel- Super-insulating gel
- Thermal Battery
- India's first coal-gastification fertilizer plant
- Quadricycles

## ◉ NANO TECHNOLOGY

- Graphene
- IIT-Madras unveiled world's first remotely operable LEAP microscope
- Particle Decay
- Rydberg Polarons
- KATRIN Experiment
- Cyclone-30 India's biggest cyclotron facility becomes operational

## ◉ SCHEMES & INITIATIVES

- Prime Minister's Science Technology And

- Innovation Council (PM-STIAC)
- Young Scientist Programme
- Innovate India Platform
- Innovation Cell
- National Statistics Day
- Children's Science Congress
- Imprint II
- Bharatnet Covers 1 Lakh Gram Panchayats
- National Viral Hepatitis Control Program
- National Biopharma Mission
- Agmark online system
- World Intellectual Property Organization (WIPO) treaties
- National Intellectual Property (IP) Award 2018
- Intellectual Property Rights Mascot
- GI Tag
- India to expand polar research to Arctic
- Deep Ocean Mission (DOM)
- Chai Sahay App by Tea Board of India

## ◉ MISCELLANEOUS

- Glass Fibre Reinforced Gypsum Concrete
- EyeROV TUNA India's first underwater robotic drone handed over to NPOL
- Nobel Prize 2018
- Prof SN Bose 125th Anniversary
- Stephen Hawking
- Raman Effect
- Li-Fi

- ▶ Vaterite
- ▶ Impact Based Forecasting Approach
- ▶ India's first engine-less train
- ▶ Other Scientific Achievements in India in 2018
- ▶ Dry Sorbent Injection (DSI)
- ▶ Microcrystallites
- ▶ SARAS
- Silver Copper Telluride
- Ice VII
- 2019 - International Year of the Periodic Table of Chemical Elements
- New Element with Magnetic Properties Discovered
- Indian National Centre for Ocean Information Service (INCOIS)

## MAINS TEST

## SCIENCE & TECHNOLOGY

### UPSC SYLLABUS

- Science and Technology- developments and their applications and effects in everyday life Achievements of Indians in science & technology; indigenization of technology and developing new technology
- Awareness in the fields of IT, Space, Computers, robotics, nano-technology, bio-technology and issues relating to intellectual property rights.

### 1. Introduction

- India's Policy in the Field of the Science & Technology
- The Science & Technology Policy Resolution in 1958
- Science & Technology Policy 2013
- Institutional Structure
- New Initiatives Aligned with the National Agenda
- India & World Collaboration in Science Projects

### 2. Space

- Satellite Communication in India
- INSAT Satellite Applications
- Remote Sensing Applications
- Cryogenic Rockets

- Global Positioning System
- Role of Space in Development
- ISRO as Soft Power
- Issue of Space Race
- Space Activities Bill, 2017
- Outer space treaty

### 3. IT, Telcom & Electronics

- IT Industry in India
- Applications of Information Technology
- Display Technologies
- Telecommunication
- Government Initiatives
- Contemporary Debates

### 4. Defence

- Missile System and their Classification
- India's Missile System
- India's Ballistic Missile Defence System
- UAVs in India
- Stealth Technology ,Chemical Weapons ,
- Biological Weapons

## 5. Nano-Science & Nano-Technology

- Nanoscience Nanotechnology and Nanomaterials
- Applications of Nanotechnology
- Health & Environmental Impacts of Nanotechnology
- Social & Ethical Impacts
- Nano-Science& Nanotechnology in India

## 6. Robotics

- Robotics & Artificial Intelligence
- Applications of Robotics
- Robotics and Issues of Unemployment

## 7. Nuclear Energy

- Nuclear-Power Policy of India
- Non-energy Applications of Nuclear Energy
- Impact of Radiation, Issue of Radioactive Waste
- Institutions involved in Nuclear Energy Development
- Nuclear & Radiological Disasters

## 8. Biotechnology

- Application of Biotechnology
- Biotechnology Projects
- Issue of Bio-Piracy
- Bioinformatics
- Biotechnology and IPR Issue
- Ethical Dimension In Biotechnology

## 9. Renewable Energy

- Ocean Thermal Energy Conversion (OTEC)
- Concept of Green Building
- Tidal , Wave , Geothermal Energy , Fuel Cells

## 10. Achievements of Indians in science & technology

- Scientists of Ancient India
- Science and Scientists of Medieval India
- Scientists of Modern India

## 11. Policies & Reports related to Science

- Technology Vision Document 2035
- National Biotechnology Development Strategy 2015-2020
- National Intellectual Property Rights Policy
- Policy on Synthetic Biology
- Law Commission Report on Human DNA Profiling

# **ENVIRONMENT + DISASTER MANAGEMENT**

## **(SUB TOPIC LISTING)**

## APPROACH CLASS (ENVIRONMENT)

### PRELIMS TEST

### ENVIRONMENT - 1

- Ecology + Biodiversity and Its Conservation

#### 1. Ecology

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

#### 2. Ecosystem and Its Dynamics

- Ecosystem Definitions
- Functions and Properties of Ecosystem
- The Structure/Components of

#### Ecosystem

- Abiotic Components
- Biotic Components
- Ecosystem Dynamics
- Flow of Energy in Ecosystem
- Trophic Levels
- Food Chain
- Types & Significance of Food Chain
- Food Web
- Models for Energy Flow
- Ecological Productivity
- Ecological Pyramid
- Biomagnifications
- Biological Control
- Organic Farming

#### 3. Biogeochemical Cycles

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

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

- Biome

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

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

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

## 6. Biodiversity Basics

- Biodiversity
- Important kinds of biodiversity
- Degree of diversity in an ecosystem
- Endemic Species
- Keystone Species

- Indicator Species
- Invasive Species
- Allopatric and Sympatric Speciation
- Bioinformatics
- Biodiversity distribution
- Uses and values of biodiversity
- State of global biodiversity
- Threats to biodiversity
- Biodiversity Hotspots
- Eco-regions
- Role of traditional knowledge in biodiversity
- Biopiracy
- Extinction of species
- Mass extinction
- IUCN's classification scheme
- IUCN Red-List of Threatened Species
- Level of biodiversity in India
- Biogeographic classification of India

## 7. Biodiversity Conservation

- Ex-situ and in-situ conservation
- Seed banks
- Zoos in biodiversity conservation
- Botanical gardens
- Protected areas
- State of protected areas in the world
- UNESCO Man and the Biosphere Program (MAB)
- Characteristics of biosphere reserves
- International agreements for biodiversity conservation



- Convention on Biological Diversity
- Cartagena Protocol
- Nagoya Protocol
- Aichi Biodiversity Targets
- Important Coastal and Marine Biodiversity Areas of India
- Important Bird Areas (IBAs) of India
- Global Tiger Initiative
- Project Tiger
- Project Elephant
- Indian Rhino Vision
- Recovery Programme for Critically Endangered Species
- Use of indigenous knowledge for conserving biodiversity
- Seed village

## MAINS TEST

## ENVIRONMENT & DISASTER MANAGEMENT - 1

### 1. Environment and Ecology: Basic Understanding

- Introduction
- Categories of Environment
- Features of Environment
- Components of Environment
- Ecology

### 2. Ecosystem and Its Dynamics

- Ecosystem Definitions
- Properties of Ecosystem
- Components of Ecosystem
  - ▶ Abiotic Factors
  - ▶ Biotic Factors
- Ecosystem Dynamics

### 3. Biogeochemical Cycles

- Gaseous Cycle
  - ▶ Carbon Cycle
    - Human Impact on the Carbon Cycle
    - Effects of High Concentration of Greenhouse Gases

- ▶ Hydrological Cycle
- ▶ Nitrogen Cycle
  - Human Impact on the Nitrogen Cycle
- ▶ Oxygen Cycle
- Sedimentary Cycle
  - ▶ Sulphur Cycle
    - Human Impact on the Sulphur Cycle
  - ▶ Phosphorus Cycle

### 4. Types of Ecosystems

- Terrestrial Ecosystem
- Aquatic Ecosystem
- Changes in Ecosystem
- Ecosystem Conservation
- Ecology vs. Economy

### 5. Population Ecology

- Population Characteristics
- Population Growth Models
- Species

**PRELIMS TEST****ENVIRONMENT - 2**

- Environmental Management+ Governance+ Environmental Pollution + Climate Change

**1. Effect of Human Activities on Environment**

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

**2. Water Resource Degradation**

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

**3. Minerals & Environmental Degradation**

- Mining and Environment
- Sensitivity of Select Ecosystems to Mining

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

**4. Deforestation**

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

## 5. Waste Management

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

## 6. Sustainable Development

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

## 7. Environmental Pollution

- Air Pollution
  - Sources of Air Pollution
  - Effects of Air Pollution
  - Classification of Air Pollutant
  - Control Measures of Air Pollution
  - Air Pollution Disasters
  - Long Range Transport of Gaseous Air Pollutants
  - National Ambient Air Quality Standards
- Water Pollution

- Sources of Water Pollution
- Types of Water Pollutants
- Effects of Water Pollution
- Water Quality Standards
- Control of Water Pollution
- Thermal Pollution
- Sources of Thermal Pollution
- Effects of Thermal Pollution
  - Control of Thermal Pollution
- Soil Pollution or Land Degradation
  - Sources of Soil Pollution
  - Effects of Soil Pollution
  - Control Measures
- Noise Pollution
- Air-borne Diseases
- Toxic Substances: Toxicant, Toxicity and Toxicology
- Factors affecting toxicity
- Carcinogens

## 8. Solid Waste Management

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

## 9. Coastal Ecosystem Management

- Mangroves
- Salient features of Mangroves
- Importance of Mangroves
- Mangroves in India

- Mangroves under threats
- Legal and Regulatory Approaches for Protection
- Estuaries
- Importance of estuaries
- Threats to estuaries
- Coral Reefs
- Geographical Conditions Required
- Uses of coral reefs
- Conservation of coral reef
- Steps for Coastal Ecosystem Management

## 10. Environmental Impact Assessment

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

## 11. Environmental Laws

- Environmental Laws: Provisions in the Indian Constitution towards Environmental Protection
- Salient Features of Air (Prevention and Control of Pollution) Act, 1981\*
- Salient Features of Water (Prevention and Control of Pollution) Act, 1974
- Salient features of Forest Conservation Act, 1980
- Salient Features of Wildlife Protection Act, 1972

- Salient Features of Environment (Protection) Act, 1986
- Role of Government in Environmental Protection

## 12. Environment related Institutions and Organizations

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

## 13. Schemes

- National Mission for Clean Ganga
- India Signs Global Environment Facility Grant
- Wood in Good Campaign
- Boat Lab to Study Brahmaputra
- Wildlife Action Plan
- SECURE Himalayas
- Strategic Plan for Human-Elephant Conflict
- Save the Sparrow
- Land Degradation Neutrality
- Biodiversity Heritage Site - Ameenpur Lake
- Energy Conservation Building Code
- Special Protection Force for Rhinos
- Regional Project on Stubble Burning
- Blue Flag Pilot Project
- National Afforestation Program
- National River Conservation Plan
- National Mission for Clean Ganga

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

## 14. International Environmental Governance

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

## 15. Urbanization and Climate

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

## 16. Impact of agriculture on climate

- Agriculture increases Carbon Dioxide Emissions
- Monoculture practice impacts biodiversity
- Pollution due to use of chemical fertilizers
- Soil-related effects
- Fertilizer's Effect on the Environment

- Impact of livestock on environment
- Impact of use of Pesticides on environment
- Impact of GM crop on environment
- Emission of Methane from agricultural practices
- Sustainable Agriculture Techniques

## 17. Global Warming & Health

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

## 18. Recent developments

### ◦ ECOLOGY & BIODIVERSITY

- ▶ Nilgiri Tahr: Climate change threatening 60% of its habitat
- ▶ Wild horses have gone extinct
- ▶ Assam to observe 'Rhino Day' on September
- ▶ Rise in Rhino Population in Kaziranga National Park
- ▶ Freedom Baby: India's first Humboldt penguin dies
- ▶ Swelling Salinity Threatens Gangetic Dolphins
- ▶ Indus Dolphins (BHULAN)
- ▶ Bahuda Rookery: Another Olive Ridley Nesting Site in Odisha
- ▶ Global Tiger Recovery Program
- ▶ Project Tiger
- ▶ Tiger Census 2018
- ▶ Asiatic Lion Conservation

- Project' launched by Government
- Vaccination of Gir lions against deadly canine distemper virus
- Rajasthan's first lion safari inaugurated at Nahargarh Biological Park
- NTCA, Cheetah Reintroduction Project: Nauradehi wildlife sanctuary
- Black Panther
- Monkey Declared Vermin in Himachal Pradesh
- Harrier Birds
- Odisha police launch drive to bust Pangolin smuggling racket
- Uttarakhand HC declares entire animal kingdom as legal entities 'Gaj Yatra'
- Andaman & Nicobar Islands home to tenth of India's fauna species: ZSI
- World's Smallest Land Fern
- Vetiver Grass
- Red sanders
- Removal of rosewood from Appendix II of CITES
- Khangchendzonga Biosphere Reserve was included in the UNESCO's World Network of Biosphere Reserve (WNBR)
- Conservation of migratory birds and their habitats
- SC directs Centre to declare area around national parks as eco-sensitive
- India Faces Grave Danger to Soil Biodiversity: WWF
- Floods trigger influx of alien fish species in Kerala
- Fire at Bandipur Tiger Reserve
- Mammals of India (MaOI)
- Mangalajodi ecotourism trust
- Sustainable Catchment Forest Management (SCATFORM) launched in Tripura
- Floating Treatment Wetland
- **POLLUTION**
  - Nitrogen Emission
  - Black Carbon in Haryana
  - Erratic Monsoon Rainfall partly due to Air Pollution
  - Ban on Petcoke
  - Only Euro VI compliant vehicles to be sold from April 2020: SC
  - Air Quality Early Warning System
  - Dust Mitigation Plan
  - Bio-Jet Fuel Flight
  - SATAT Initiative
  - WAYU – Air Pollution Control Device
  - Uranium Contamination Of Ground Water In India
  - Arsenic contamination in paddy plants
  - Heavy Metal Water Pollution
  - Persistent Organic Pollutants
  - Alliance to End Plastic Waste
  - Taj Declaration to Beat Plastic Pollution adopted in Agra
  - Approval for the Trishna Gas project of ONGC which falls in the Trishna Wildlife Sanctuary
  - Thoothukudi Sterlite Plant



- ▶ Achieving Energy Efficiency Key to Meeting Lower Emissions Commitment
- ▶ Akademik Lomonosov: World's First Floating Nuclear Power Plant becomes operational
- **CLIMATE CHANGE**
  - ▶ Earth at risk of becoming irreversible hothouse: Study carbon source
  - ▶ Urban Waste and Global Warming
  - ▶ The State of the Global Climate in 2018
  - ▶ El Nino and Climate Change: 2019 may be the hottest year yet
  - ▶ Sea Level Rise and its Impact
  - ▶ "Green Good Deeds" Campaign
  - ▶ Adapting Better to Climate Change Mitigation Plan
  - ▶ India Spearheading Climate solutions
  - ▶ Stratospheric barrier to curb warming
  - ▶ Recovery of Ozone Layer
  - ▶ Atmosphere & Climate Research-Modelling Observing Systems & Services (ACROSS)
  - ▶ World Bank's climate action investment for 2021- 25
  - ▶ UNEP partners with Google for monitoring impact of human activity on global ecosystem
  - ▶ CONFERENCES AND REPORTS
  - ▶ IPCC Special Report on Climate Change
  - ▶ COP24 IN KATOWICE: Major Outcomes
  - ▶ India to submit Second Biennial Report to UNFCCC
  - ▶ BASIC Ministerial Meeting on Climate Change
  - ▶ Global Cooling Innovation Summit held in New Delhi
  - ▶ Sustainable Biofuel Innovation Challenge (SBIC)
  - ▶ Suva Expert Dialogue on Loss and Damage
  - ▶ India State of Forest Report 2017
  - ▶ Parliamentary Panel Report on Western Ghats
  - ▶ 13th CoP of Bonn Convention
  - ▶ 2018 State Of The World's Birds Report
  - ▶ Water Bird survey
  - ▶ STAPCOR – 2018
  - ▶ India to Bring its First Own National Environment Survey (NES) in 2019
  - ▶ Environment Performance Index (EPI) 2018
  - ▶ Environmental Impact Assessment (EIA)
  - ▶ Asia Environment Enforcement Awards, 2018
  - ▶ Environmental Refugee
  - ▶ World Water Development Report 2018
  - ▶ Status of Trace and Toxic metals in Indian rivers 2018 Report
  - ▶ International Dam Safety Conference 2019
  - ▶ Hindu Kush Himalayan Assessment Report



- India's E-waste Generation
- Eighth Regional 3R Forum
- Global Energy Transformation: A Roadmap to 2050
- India pitches for declaring 2019 as International Year of Millets

#### ◉ **POLICIES, SCHEMES & INITIATIVES**

- States set to roll out Parivesh
- Draft National Forest Policy, 2018
- NITI Aayog Calls for Clear Policy on Shifting Cultivation
- Draft Rules for Compensatory Afforestation Act, 2016
- CAMPA
- Ganga Vriksharopan Abhiyan
- 'i-Hariyal' app' to increase state's green cover
- Scheme for protection of exotic Neela Kurinji plants
- Scheme to Promote In-Situ (In The Farm Itself) Management Of Crop Residue
- Task Force on Biomass Management
- National Clean Air Programme
- Clean Air' India Ring Initiative
- Ash track mobile application
- South Asian Nitrogen Hub
- Scheme for Biomass Based Cogeneration Projects
- National Policy on Biofuels-2018
- Waste to Wealth
- National REDD+ Strategy
- Ensemble Prediction Systems (EPS): IMD's new forecast model
- Solar Geo-Engineering (Solar Radiation Management (SRM)
- Maharashtra's Project on Climate Change Resilient Agriculture (PoCRA)
- Initiatives to reduce carbon emissions from Farming
- National Water Informatics Centre (NWIC)
- Ganga Gram Project
- Deep Ocean Mission
- Clean Seas Campaign
- Blue Flag certification
- 3d-Printed Artificial Reef
- Bhutan, Nepal and Bangladesh to be part in India Tiger Census
- African countries launch joint initiative to save 4 carnivore species
- ICFRE inks two MuUs to launch Prakriti programme
- Himalayan Research Fellowships scheme
- One Planet One City Challenge Of WWF
- Smart Food Executive Council

#### ◉ **RESOURCE CONSERVATION & MANAGEMENT**

- 2018 Earth Overshoot Day to fall on August 1
- National Biogas and Manure Management Programme
- Community Forest Resource
- Brazzaville Declaration

- ▶ Nekkampur Lake (Tulsi and Ashwagandha)
- ▶ NITI Aayog Urges Plan to Save Springs in Himalayas
- ▶ Bhungroo Water Harvesting System
- ▶ Google for Water Resource Management
- ▶ Water Scarce Cities & Composite Water Management Index (CWMI)
- ▶ South Asia Wildlife Enforcement Network (SAWEN)
- ▶ The National Wildlife Genetic Resource Bank
- ▶ Conservation Assured | Tiger Standards (CA|TS) Partnership
- ▶ Recovery Programme For Wildlife Species
- ▶ New Wildlife Sanctuary at Ghodazari
- ▶ Kaziranga National Park
- ▶ Organic Carbon for Carbon Sequestration
- ▶ Zero Budget Natural Farming
- ▶ State Energy Efficiency

Preparedness Index 2018

- ▶ Solar City Programme

## ◉ **DISASTER MANAGEMENT**

- ▶ Disaster Resilient Infrastructure in India (Policies and Guidelines)
- ▶ National Disaster Response Force
- ▶ National Disaster Risk Index
- ▶ Regional Integrated Multi-Hazard Early Warning System(RIMES) for Asia and Africa
- ▶ Fire Disaster Management
- ▶ Landslide Warning System
- ▶ Indian Tsunami Early Warning System

## ◉ **MISCELLANEOUS**

- ▶ Smartphone Tech Most Damaging to Environment
- ▶ Prevention of cruelty to animals (Karnataka Amendment) Bill
- ▶ Sagar Nidhi
- ▶ International Whaling Commission

## **MAINS TEST**

## **ENVIRONMENT & DISASTER MANAGEMENT - 2**

### **1. Biosphere**

- ◉ Extent of the Biosphere
- ◉ Working of the Biosphere
- ◉ Importance of the Biosphere
- ◉ Alpha, Beta, Gamma Diversity
- ◉ Biomes
- ◉ Global Biomes
- ◉ Major Biomes of the World
- ◉ WWF Classification of Biomes
- ◉ Terrestrial Biomes
- ◉ Aquatic Biomes
- ◉ Indian Biomes

## 2. Biodiversity

- Types of Biodiversity
- Value of the Biodiversity
- Threats to Biodiversity
- Causes of Biodiversity losses ('The Evil Quartet')
- Invasive species
- Effects of Loss of Bio-Diversity
- Extinction of Species
- Types - Natural, Mass, Anthropogenic
- Causes of Extinction
- Consequences of Extinction of Species

## 3. Biodiversity Conservation

- Conservation Strategies
- Conservation Tools
- IUCN
- IUCN Red List
- Ecologically Sensitive Area (ESAs)
- In-situ methods of conservation of biodiversity
- Advantages of In-situ Conservation
- Disadvantages of In-situ conservation
- Ex-situ Methods of Conservation of Biodiversity

## 4. Pollution & Degradation

- Land Degradation
- Causes and Impact of Land

### Degradation

- Desertification
- Sustainable Land Management
- Soil Erosion
- Problems due to Excessive Irrigation
- Soil Conservation
- Air Pollution
- Causes of Air Pollution
- Harmful Effects of Common Air Pollutants
- Control of Air Pollution
- Marine Pollution
- Effects of Marine Pollution
- Coastal Regulation Zone Notification, 2011
- Mining & Pollution
- Effects of Mining on Environment
- Concept of Sustainable Mining
- Acts to regulate the adverse effects of Mining Activities
- Other Pollution
- Effects of Noise Pollution on Human Health
- Harmful Effects from Biological Contaminants
- Harmful Effects of Radioactive Pollution
- Nuclear Accidents
- Water Degradation
- Measurement of Water Pollution
- Harmful Effects of Water Pollution

## 5. Waste Management

- Solid Waste Management
- Salient features of SWM Rules, 2016
- e-waste Management
- Pollutants and their Health Impacts
- Importance of the E-Waste Management
- E-waste (Management & Handling) Rules, 2016
- Biomedical Waste
- Hazards Associated with Waste Management
- Bio-Medical Waste Management Rules, 2016
- Hazardous Waste
- Hazardous Waste Treatment
- Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016

## 6. Climate Change

- Factors Affecting Climate Change
- Impact of climate change & its mitigation
- Climate Change Management
- Conventions
- International Organisations

## 7. Environmental Impact Assessment Sustainable Practices

- Impact of Agriculture on Environment
- Sustainable Agriculture
- Sustainable Agriculture
- Hi-tech Farming Methods
- Rain Water Harvesting
- Green Buildings and their Rating System in India
- Eco-tourism-Advantages & Disadvantages of Eco-tourism

**PRELIMS TEST**

**ENVIRONMENT REVISION TEST**  
(Complete Syllabus)

**MAINS TEST**

**ENVIRONMENT REVISION TEST**  
(Complete Syllabus)

**PRELIMS TEST**

**CURRENT AFFAIRS - 2**  
(MAY, 2023 TO AUGUST, 2023)

