



An Institute for Civil Services

IAS  
2025

# INTEGRATED TEST SERIES & MENTORSHIP PROGRAMME *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

BATCH  
STARTS

**18 JUNE  
2024**

*More than just a Test Series*

PROGRAMME FEE

₹ **32,500 +GST**

FOR MORE DETAILS  
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## ABOUT THE PROGRAMME

With a substantial overlap of 70-80% between the Prelims and Mains syllabus, ITS acknowledges the significance of integrated learning. It goes beyond the conventional test series by offering a personalized toolkit to provide comprehensive guidance throughout your preparation journey. The programme works on an outcome-oriented approach which ensures that your learning translates into tangible results.





## PROGRAMME DELIVERY

### 01

### CONCEPT BUILDING

To ensure conceptual clarity and understanding, programme provides various tools outlined below:



#### STUDY TARGET & PLANNER

Detailed subject-wise study targets and planners are provided, including micro-listing of topics. This aids in tracking the coverage of the entire syllabus.



#### ANSWER WRITING SKILLING

Dedicated sessions to understand and practice key skills of answer writing, essential for effective exam performance.



#### CONCEPT CLASSES

Over 60 in-depth concept classes (120+ hours) focusing on conceptual building across relevant topics to orient students with the subject matter and its nuanced applications.



#### REVISION CLASSES

Revision Classes (20+ hours) before Revision Tests. Prior to exams, Recall Sessions to facilitate faster revision through reflective questioning.



#### PRACTICE WORKSHEETS

Diverse practice worksheets are provided to foster critical thinking among aspirants and encourage reflection on learned content.



#### VALUE ADDITION NOTES

In addition to model answers, value addition notes on contemporary topics to enrich understanding and provide broader perspectives.



#### UPDATION CLASSES

Mains updation classes (150+ hours) are conducted post-prelims to aid in updating preparation.

## 02

## ASSESSMENT

Assessment is conducted through an Integrated Test Series comprising 96 tests, categorized as follows:

**PRELIMS TESTS (45):**

- ▣ 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)

**MAINS TESTS (51):**

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

**DISCUSSION CLASSES (100+ HOURS):**

- ▣ Each test will be followed by test discussion by the concerned faculty.
- ▣ Discussion Classes are designed in such a way that they will help in concept building and Value Addition on other related topics of the respective Test.
- ▣ It is an ultimate approach to cover complete revision.

## 03

## MENTORSHIP



Mentorship sessions with respective faculty are conducted before test and post-copy evaluation.




These sessions provide tailored insights and feedback to each candidate based on their performance, fostering personalized growth and development






## TRUSTED BY TOPPERS

Over the time, thousands of our students have successfully cleared the UPSC CSE Mains Examination with the help of our programmes. Our IAS Topper Test Copy section on our website stands as a testament to this achievement, showcasing over 400 IAS Toppers Test Copies. To access these copies, simply click the link <https://iasscore.in/toppers-copy> or scan the QR code




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

**SWATI SHARMA**  
(AIR-15, CSE, 2022)



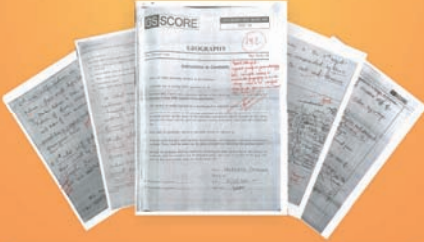
“ Answer Writing is always considered as a vital part for success in UPSC. GS SCORE helped me in building a strong and solid foundation for development of Answer Writing skills. Thank you! ”

**AMBIKA RAINA**  
(AIR-164, CSE, 2022)



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

**YASHARTH SHEKHAR**  
(AIR-12, CSE, 2021)



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

**SHRUTI RAJALAKSHAMI**  
(AIR-25, CSE, 2021)





## ANSWER WRITING SKILL DEVELOPMENT SESSIONS

DAY	THEME & DESCRIPTION	OUTCOME
Day-1	Introduction	
Day-2	<b>Clarity</b> (Its objective is to identify the Context and Key Demand of the Question)	<ul style="list-style-type: none"> <li>◦ Question Decipher</li> <li>◦ Theme of the Question</li> <li>◦ Identification of Keywords</li> <li>◦ Abstract/Hidden Concepts</li> <li>◦ Tonality of question</li> </ul>
Day-3	<b>Relevance</b> (Along with the identification of Context and Key Demand of the Question, relevant Dimensions and Examples are important)	<ul style="list-style-type: none"> <li>◦ Information Recall/Mental Framework</li> <li>◦ Inference and deduction</li> <li>◦ Articulation- Structure and Organization</li> </ul>
Day-4	<b>Depth</b> (Critical analysis is important as it enhances understanding, strategy, and proficiency in answering, aiding exam success comprehensively)	<ul style="list-style-type: none"> <li>◦ Application of Concepts</li> <li>◦ Analytical skills and Critical thinking</li> </ul>
Day-5	<b>Structure</b> (The order of arguments and logical co-relation ensures clarity, coherence, and effective communication, vital for showcasing knowledge and securing marks)	<ul style="list-style-type: none"> <li>• Introduction of Answer</li> <li>• Different Parts of Answer</li> <li>• Body Part of The Answer</li> <li>• Key Directives &amp; Tail Words</li> <li>• Conclusion of Answer</li> <li>• Bullet or Paragraph</li> <li>• Use of Sub-Heads</li> <li>• Flow chart, use of boxes and inter-linkages.</li> </ul>
<b>Note:</b> Separate schedule will be provided for the sessions mentioned above for answer writing skill development.		

Day	Type	Subject	Topics To Be Covered
<b>POLITY</b>			
<b>18 JUNE, 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>28 JUNE, 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>01 JULY, 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> <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> </ul>

Day	Type	Subject	Topics To Be Covered
			<ul style="list-style-type: none"> <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>
05 JULY, 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>
09 JULY, 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>
13 JULY, 2024	Prelims Test/ Discussion	Polity 3	<ul style="list-style-type: none"> <li>Federalism (Centre-State Relations &amp; Inter-State Relations);</li> <li>Special Provisions;</li> <li>Types of Emergencies;</li> <li>Local Governance;</li> <li>Union Territories and Special Areas</li> </ul>

Day	Type	Subject	Topics To Be Covered
17 JULY, 2024	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>
CONCEPT CLASS: 7			<ul style="list-style-type: none"> <li>Judiciary of India</li> <li>High Courts of India</li> <li>Tribunals</li> </ul>
CONCEPT CLASS: 8			<ul style="list-style-type: none"> <li>Constitutional Bodies</li> <li>Non-Constitutional Bodies</li> <li>Political Dynamics</li> <li>Miscellaneous</li> </ul>
21 JULY, 2024	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>
25 JULY, 2024	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; Appointment to various Constitutional Posts, Powers, Functions and Responsibilities of various Constitutional and Non-Constitutional Bodies ;</li> </ul>



Day	Type	Subject	Topics To Be Covered
			<ul style="list-style-type: none"> <li>Salient features of the Representation of People's Act.</li> </ul>
CONCEPT CLASS: 9			<ul style="list-style-type: none"> <li>Their Forms And Effect On The Society.</li> </ul>
29 JULY, 2024	Prelims Revision Test	Polity	Complete Syllabus
02 AUGUST, 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>
07 AUGUST, 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>
11 AUGUST, 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> <li>Early Muslim Invasions, The Delhi Sultanate (1206-1526 Ad);</li> <li>Struggle For Empire In North India (Afghans, Rajputs And Mughals);</li> </ul>



Day	Type	Subject	Topics To Be Covered
			<ul style="list-style-type: none"> <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>15 AUGUST, 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 AUGUST, 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>
<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>

Day	Type	Subject	Topics To Be Covered
<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>23 AUGUST, 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>27 AUGUST, 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> <li>◦ Various strands of Freedom Struggle;</li> <li>◦ Significant personality/ personalities;</li> </ul>

Day	Type	Subject	Topics To Be Covered
<b>31 AUGUST, 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>04 SEPTEMBER, 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>
<b>08 SEPTEMBER, 2024</b>	<b>Prelims Revision Test</b>	<b>History &amp; Culture of India</b>	<b>Complete Syllabus</b>

Day	Type	Subject	Topics To Be Covered
12 SEPTEMBER, 2024	Mains Revision Test	History & Culture Of India	Complete Syllabus
<b>ECONOMY</b>			
<b>APPROACH CLASS: ECONOMY</b>			
<b>CONCEPT CLASS: 19</b>		<ul style="list-style-type: none"> <li>Basics of Economy; Monetary Policy; Banking; Financial</li> </ul>	
<b>CONCEPT CLASS: 20</b>		<ul style="list-style-type: none"> <li>Market; National Income</li> </ul>	
<b>CONCEPT CLASS: 21</b>		<ul style="list-style-type: none"> <li>Public Finance; Taxation; Poverty; Inclusive Growth</li> </ul>	
16 SEPTEMBER, 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>
20 SEPTEMBER, 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>
24 SEPTEMBER, 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>

Day	Type	Subject	Topics To Be Covered
<b>28 SEPTEMBER, 2024</b>	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>
<b>CONCEPT CLASS: 22</b>			<ul style="list-style-type: none"> <li>◦ Planning; Balance of Payment; LPG Reforms; Agriculture, food processing, and Land Reforms,</li> </ul>
<b>CONCEPT CLASS: 23</b>			<ul style="list-style-type: none"> <li>◦ Industry; Services; Employment</li> </ul>
<b>CONCEPT CLASS: 24</b>			<ul style="list-style-type: none"> <li>◦ External Sector; Trade, Infrastructure; Investment Models; International Bodies</li> </ul>
<b>01 OCTOBER, 2024</b>	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>
<b>05 OCTOBER, 2024</b>	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, limitations, revamping; issues of buffer stocks and food security; Technology missions; economics of animal-rearing;</li> </ul>

Day	Type	Subject	Topics To Be Covered
			<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>
09 OCTOBER, 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></ul>
			<ul style="list-style-type: none"><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>
13 OCTOBER, 2024	Prelims Revision Test	Economy	Complete Syllabus
17 OCTOBER, 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>
CONCEPT CLASS: 29			<ul style="list-style-type: none"><li>◦ How to write Contemporary Essay</li></ul>



Day	Type	Subject	Topics To Be Covered
<b>CONCEPT CLASS: 30</b>			◦ Common Mistake Discussion
<b>21 OCTOBER, 2024</b>	Mains Test/ Discussion	Essay 1	Essay Mock Test - 1
<b>GEOGRAPHY</b>			
<b>APPROACH CLASS: GEOGRAPHY</b>			
<b>CONCEPT CLASS: 31</b>			◦ Origin of Earth; Geomorphology
<b>24 OCTOBER, 2024</b>	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>
<b>27 OCTOBER, 2024</b>	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>
<b>CONCEPT CLASS: 32</b>			◦ Climatology; Oceanography; Bio Geography

Day	Type	Subject	Topics To Be Covered
<b>30 OCTOBER, 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>02 NOVEMBER, 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>06 NOVEMBER, 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>10 NOVEMBER, 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>14 NOVEMBER, 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>18 NOVEMBER, 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>

Day	Type	Subject	Topics To Be Covered
CONCEPT CLASS: 35			Geography Revision Class
22 NOVEMBER, 2024	Prelims Revision Test	Geography	Complete Syllabus
26 NOVEMBER, 2024	Mains Revision Tes	Geography	Complete Syllabus
29 NOVEMBER, 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			
02 & 05 DECEMBER, 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

Day	Type	Subject	Topics To Be Covered
<b>CONCEPT CLASS: 39</b>			◦ Approach to Answer Writing
<b>CONCEPT CLASS: 40</b>			◦ Case Study – Session 1
<b>08 DECEMBER, 2024</b>	Mains Test/ Discussion	Ethics-1	◦ Ethics Theory 1 : Ethics & Human Interface + Case Studies
<b>CONCEPT CLASS: 41</b>			◦ Ethics in Governance
<b>CONCEPT CLASS: 42</b>			◦ Case Study – Session 2
<b>11 DECEMBER, 2024</b>	Mains Test/ Discussion	Ethics-2	◦ Ethics Theory 2 : Ethics & Governance + Case Studies
<b>CONCEPT CLASS: 43</b>			◦ Applied Ethics
<b>CONCEPT CLASS: 44</b>			◦ Case Study – Session 3
<b>14 DECEMBER, 2024</b>	Mains Test/ Discussion	Ethics-3	◦ Ethics Theory 3 : Applied Ethics+Case Study
<b>CONCEPT CLASS: 45</b>			◦ Ethics Revision Class
<b>17 DECEMBER, 2024</b>	<b>Mains Revision Test</b>	<b>Ethics 4</b>	<b>Complete Syllabus</b>
<b>20 DECEMBER, 2024</b>	Mains Test	Essay 3	Essay Mock Test - 3
<b>IR + WORLD HISTORY</b>			
<b>APPROACH CLASS: IR &amp; WORLD HISTORY</b>			
<b>22 DECEMBER, 2024</b>	Mains Test/ Discussion	International Relations 1	◦ India's Foreign Policy; ◦ India and its neighbourhood- relations; ◦ Regional Groupings;

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>
26 DECEMBER, 2024	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>
28 DECEMBER, 2024	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>
31 DECEMBER, 2024	Mains Revision Test	International Relations + World History	Complete Syllabus
02 JANUARY, 2025	Prelims Test	Current Affairs	Current Affairs-1 (Jan 2024 - April 2024)
GOVERNANCE & SCHEMES			
APPROACH CLASS: GOVERNANCE & SCHEMES			

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>



Day	Type	Subject	Topics To Be Covered
<b>CONCEPT CLASS: 47</b>			<b>Governance &amp; Society Revision Class</b>
<b>23 JANUARY, 2025</b>	<b>Mains Revision Test</b>	<b>Governance &amp; Society</b>	<b>Complete Syllabus</b>
<b>INTERNAL SECURITY + PIC</b>			
<b>APPROACH CLASS: INTERNAL SECURITY</b>			
<b>23 JANUARY, 2025</b>	<b>Mains Test/ Discussion</b>	<b>Internal Security 1</b>	<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>
<b>05 FEBRUARY, 2025</b>	<b>Mains Test/ Discussion</b>	<b>Internal Security 2</b>	<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>			

Day	Type	Subject	Topics To Be Covered
11 FEBRUARY, 2025	Mains Test/ Discussion	Post-PIC	<ul style="list-style-type: none"> <li>Post-Independence Consolidation And Reorganization Within The Country.</li> </ul>
CONCEPT CLASS: 48			Internal Security + PIC Revision Class
16 FEBRUARY, 2025	Mains Revision Test	Internal Security + PIC	Complete Syllabus
SCIENCE & TECHNOLOGY			
APPROACH CLASS: SCIENCE & TECH			
CONCEPT CLASS: 49			<ul style="list-style-type: none"> <li>Science &amp; tech Developments And Their; Applications And Effects In Everyday Life</li> </ul>
23 FEBRUARY, 2025	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>
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>
ENVIRONMENT + DISASTER MANAGEMENT			
APPROACH CLASS: ENVIRONMENT + DISASTER MANAGEMENT			
CONCEPT CLASS: 51			<ul style="list-style-type: none"> <li>Ecology and its dynamics; Biogeochemical Cycles; Biomes</li> </ul>

Day	Type	Subject	Topics To Be Covered
<b>CONCEPT CLASS: 52</b>			<ul style="list-style-type: none"> <li>◦ Pollution &amp; Degradation; Biodiversity; Conservation</li> </ul>
<b>06 MARCH, 2025</b>	Prelims Test/ Discussion	Environment 1	<ul style="list-style-type: none"> <li>◦ Ecology + Biodiversity And Its Conservation</li> </ul>
<b>08 MARCH, 2025</b>	Mains Test/ Discussion	Environment	<ul style="list-style-type: none"> <li>◦ Environment And Disaster Management 1</li> </ul>
<b>CONCEPT CLASS: 53</b>			<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>
<b>11 MARCH, 2025</b>	Prelims Test/ Discussion	Environment 2	<ul style="list-style-type: none"> <li>◦ Environmental Management + Governance+ Environmental Pollution + Climate Change</li> </ul>
<b>14 MARCH, 2025</b>	Mains Test/ Discussion	Environment	<ul style="list-style-type: none"> <li>◦ Environment And Disaster Management 2</li> </ul>
<b>CONCEPT CLASS: 54</b>			<ul style="list-style-type: none"> <li>◦ <b>Environment &amp; DM Revision Class</b></li> </ul>
<b>20 MARCH, 2025</b>	Prelims Revision Test	Environment	<b>Complete Syllabus</b>
<b>21 MARCH, 2025</b>	Mains Revision Test	Environment	
<b>24 MARCH, 2025</b>	Prelims Test	Current Affairs	<b>Current Affairs-2 (May to August 2024)</b>

Type	Subject & No. Of Questions	Topics To Be Covered
<b>SECTIONAL TEST</b>		
<b>PRELIMS TEST</b>	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
	<b>Current Affairs-3</b>	<b>Sept to Dec 2024</b>
	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
	<b>Current Affairs-4</b>	<b>Economic Survey + Budget + IYB</b>
	<b>Current Affairs-5</b>	<b>Jan to April 2025</b>
<b>FULL MOCK TEST</b>		
<b>MAINS TEST</b>	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 & Refrences
  - ▶ 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

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

- Rise of Popular movements
- 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 & Ghoris, 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 (1894-1999)
- 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> |
|---|---|

### 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> |
|---|--|



- ▶ Unified Payment Interface
- ▶ India Post Payments Bank
- ▶ Differentiated Bank Licenses
- ▶ Digital Payments Scenario
- ▶ Monetary Policy Committee
- ▶ Report of Working Group on Development of Corporate Bond Market in India
- ▶ IL & FS issue and Corporate Governance in India
- ▶ SEBI reforms on Corporate Governance – Uday Kotak Committee
- ▶ SEBI and Commodity markets in India
- ▶ Concept of Crypto-Currencies
- ▶ Crypto Currencies Come Under SEBI Lens
- ▶ Corporate Governance: Role of SEBI
- ▶ Peer to Peer Lending Firms
- ▶ Bank Recapitalization Program
- ▶ Lessons on NPA from Global Banks
- ▶ Need of Regulatory Regime for Alternative Investment Fund
- ▶ Name and Shame Willful Defaulters

## 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
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    - ◆ Indus river system
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    - ◆ Brahmaputra river system
  - Peninsular Drainage System
    - ◆ River Systems of Peninsular Drainage
    - ◆ Small Rivers Flowing Towards East and West

#### ◉ Climate

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#### ◉ 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
- 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

## 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

## 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
  - Condition of growth
  - Production pattern
  - International trade
- Rye
  - Condition of growth
  - Production pattern
  - International trade
- 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)
    - RashtriyaGokul Mission
    - Agriculture Export Policy, 2018
- Pradhan MantriKisanSamman Nidhi (PM- KISAN)
- Pradhan Mantri Annadataaay 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
- ## 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
    - 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



- ▶ 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

**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

**GOVERNANCE ISSUES RELATED  
TO INTERNAL SECURITY**

- 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 fossils fuels
- Photosynthesis: the ultimate energy source
- Biofuels from biomass
- Bioethanol from biomass
- Biodiesel
- Methane
- Hydrogen

## 3. Environmental Biotechnology

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

## 4. Plant and Forest Biotechnology

- Plant biotechnology
- Forest biotechnology

## 5. Animal and Insect Biotechnology

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

- Animal organs for human patients
- Genetically modified insects

## 6. Food and Beverage Biotechnology

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

## 7. Protection of Biotechnological Inventions

- Patent protection Trade secrets
- Plant breeders' rights

## 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
- 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

## 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

## 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**

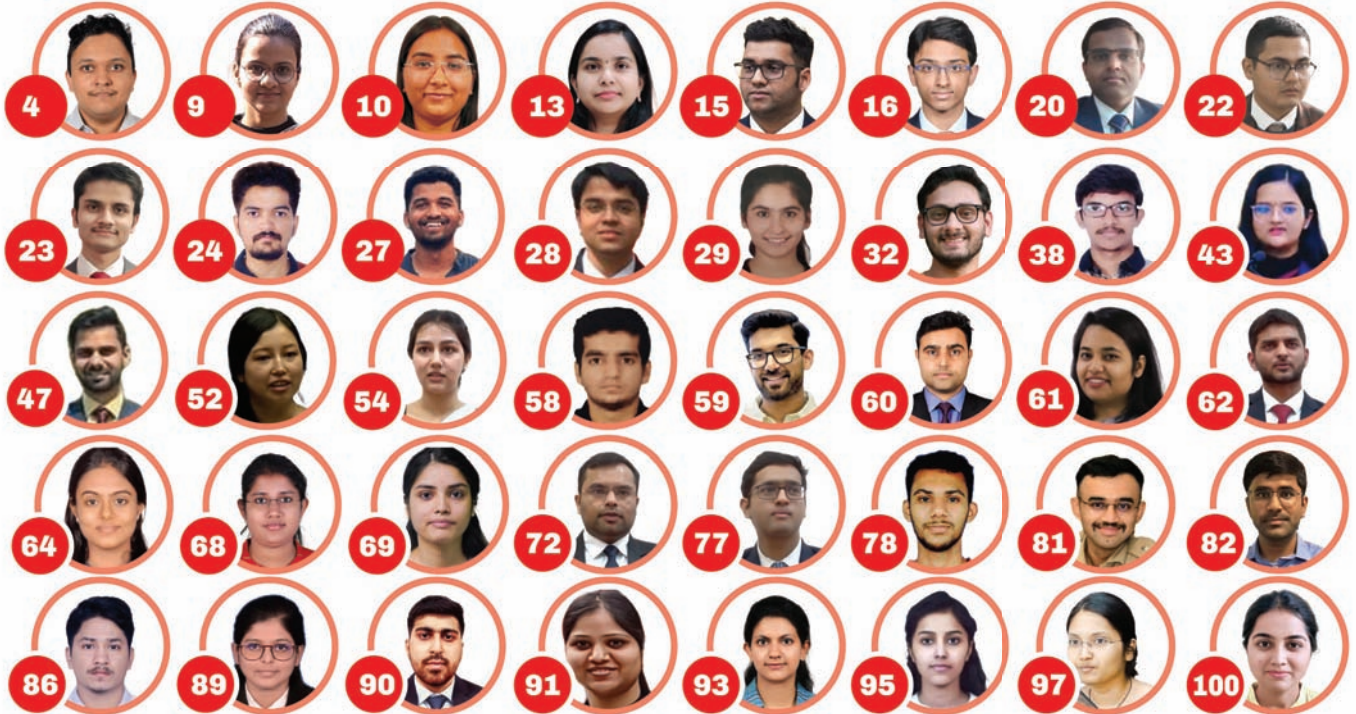
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(MAY, 2023 TO AUGUST, 2023)





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