

## IAS PRELIMS 2024

COMPLETE REVISION *of* PRELIMS

through **6000<sup>+</sup> MCQS & 90<sup>+</sup> CLASSES**

# TARGET PT

AN ULTIMATE COURSE *for* MICRO MANAGEMENT *of the* SYLLABUS



### DAILY TESTS & REVISION CLASSES

- ▣ Micromanagement of the Syllabus through Daily Tests & 60 Concept cum Revision Classes for GS
- ▣ Regular Doubt-clearing Sessions & Mentorship
- ▣ 10+ CSAT Classes & Tests



### PRELIMS TEST SERIES

Apart from Daily Tests, the following tests are:

- ▣ 6 Revision Tests
- ▣ 6 Sectional Tests
- ▣ 20 Mock Tests (GS +CSAT)



### PRELIMS REVISION NOTES

- ▣ Prelims-Specific Revision Notes\*
- ▣ Yearly Compilation of Prelims Current Affairs
- ▣ Prelims Fact File



### CURRENT AFFAIRS TESTS & CLASSES

- ▣ 20+ Current Affairs Tests & Classes covering 800+ Topics from last 2 Yrs
- ▣ Special sessions on Economic Survey & Budget and India Year Book



**BATCH STARTS**

**10**  
**JANUARY**  
**2024**

**ONLINE & OFFLINE**

**TEST TIMINGS:** 03:00 PM to 04:00 PM  
**CLASS TIMINGS:** 04:00 PM to 07:00 PM



**COURSE FEE ₹ 14,000 (+GST)**



**8448496262**  **iasscore.in**

# COURSE COMPONENT

Target PT 2024 aims to assist UPSC aspirants in effectively managing the intricate details of subjects and handling negative marking. It addresses the common confusion regarding what and how much to study by providing a comprehensive syllabus coverage within a set timeframe. The program includes a test series to assess students' progress throughout their preparation. The details of the programme are:



## CONCEPT CUM REVISION CLASSES

60 Concept cum Revision Classes for GS, 20+ Yearly Current Affairs Classes covering 800+ topics from last 2 years & 10+ CSAT Classes



## DAILY TESTS

There will be a test of 50 questions (based on the topics given in schedule) to cover basic aspects of each topic and approach to handle questions.



## PRELIMS TEST SERIES

Apart from Daily Tests, there will Subject Revision Tests (100 Ques) after completion of each subject & the Sectional Tests (100 Ques) will be conducted after the completion of all the subjects.



## MENTORSHIP

The Doubt Clearing Session will be conducted for better conceptual clarity.



## PRELIMS REVISION NOTES

Complete Prelims Study Material & Prelims Current Affairs Material (Current Affairs of last 2 years) will also be provided.

# COURSE DELIVERY

## CLASS & TEST PROCEDURE

**01**

There will be a test of 50 questions (based on the topics given in schedule) followed by Class

**02**

90 Days Concept cum Revision Classes (GS + CSAT + Current Affairs) which will focus on quick revision and consolidation of preparation with micro-management of topic.

**03**

The idea behind taking test before classes is that, first students should brainstorm on the given topics through the test to find their strong and weak areas.

**04**

The Revision Tests (100 Questions) will be conducted after completion of each subject.

**05**

The Sectional Tests (100 Questions) will be conducted after the completion of all the subjects

**06**

There will be a Total of 97 Tests including

**38**

**TOPICAL TESTS**  
50 QUESTIONS

**12**

**CSAT TESTS**  
15 TO 20 QUESTIONS

**12**

**REVISION &  
SECTIONAL TESTS**  
100 QUESTIONS

**20**

**MOCK TESTS  
(GS & CSAT)**  
100 & 80 QUESTIONS

**15**

**CURRENT AFFAIRS  
TESTS**  
50 QUESTIONS

# COURSE SESSION PLAN

## POLITY & GOVERNANCE

### EVOLUTION & SALIENT FEATURES OF THE CONSTITUTION

#### SESSION: 01

10 JANUARY,  
2024

#### □ Evolution of the Constitution

- The Company Rule (1773-1858)
- Regulating Act, 1773
- Amending Act, 1781
- Pitt's India Act, 1784
- Amending Act of 1786
- Charter Act, 1793
- Charter Act, 1813
- Charter Act, 1833
- Charter Act, 1853
- The Crown Rule (1858-1947)
- Government of India Act, 1858
- Indian Councils Act, 1861
- Indian Councils Act, 1892
- Indian Councils Act, 1909
- Government of India Act, 1919
- Simon Commission
- Government of India Act, 1935

- Indian Independence Act, 1947
- Drafting and Sources of Indian Constitution)
- Seminal Sources
- External Sources
- Developmental Sources
- Constitutional Practices
- Important Committees of the Constituent Assembly and their Chairman

#### □ Salient Features of Indian Constitution

- Constitution and Types
- Types of Political System
- Types of Majorities as per the Indian Constitution
- Preamble and Values in the Constitution
- Amendment of the Constitution
- Procedure for amendment

- Types of Amendments
- Amendability of FR's
- Ingredients of basic structure
- Doctrine and Terms
- Doctrine of severability
- Validity of Constitutional Laws
- Doctrine of Eclipse
- Doctrine of Colorable Legislation (Article 246)
- Doctrine of Territorial Nexus
- Doctrine of Laches
- Due Process of Law
- Procedure Established by Law
- Other Constitutional Dimensions
- Schedules and Subjects
- Official Languages

**SESSION: 02**

11 JANUARY,  
2024

**CLASS CONTINUE**

**UNION & ITS TERRITORY + CITIZENSHIP +  
FUNDAMENTAL RIGHTS + DPSP + FUNDAMENTAL  
DUTIES**

**SESSION: 03**

12 JANUARY,  
2024

- **Union & States**
  - Nation and state
  - Form of Indian state
  - Union and its Territory
  - Indestructible Union of Destructible States
  - Reorganization of Indian States post-Independence
- **Citizenship**
  - Meaning and Significance
  - Constitutional Provisions
  - CAA, NRC, NPR, PIO/OCI
- **Fundamental Rights**
  - Evolution, objectives and features
  - Philosophical dimension
  - of Part III
  - Meaning of state for Part III and Part IV
  - Meaning and importance of Fundamental Rights
  - Rule of Law
  - Right to Equality, Equality before law and equal opportunity of law
  - Right to Freedom
  - Right to life
  - Right against Exploitation
  - Right to Freedom of Religion
  - Cultural and Educational Rights

	<ul style="list-style-type: none"> <li>◦ Article 31</li> <li>◦ Writs and their uses</li> <li>◦ Article 33-35</li> <li>◦ Procedure established by law and due process of law</li> <li>◦ Key SC judgments</li> <li>◦ Amendments to the Part III</li> <li>◦ Effect of Emergencies</li> </ul> <p>□ <b>Directive Principles of State Policy</b></p> <ul style="list-style-type: none"> <li>◦ Evolution and Sources</li> <li>◦ Basic features</li> <li>◦ Socialistic Principles</li> <li>◦ Gandhian Principles</li> </ul>	<ul style="list-style-type: none"> <li>◦ Liberal-Intellectual Principles</li> <li>◦ New Directives Principles</li> <li>◦ Criticism and utility</li> <li>◦ Implementation</li> <li>◦ Relationship between FRs and DPSPs: Key Judgments and Current situation</li> </ul> <p>□ <b>Fundamental Duties</b></p> <ul style="list-style-type: none"> <li>◦ Evolution and Features</li> <li>◦ Key duties</li> <li>◦ Enforceability and justiciability</li> <li>◦ Rights and Duties</li> <li>◦ Criticism and Significance</li> </ul>
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**SESSION: 04**

13 JANUARY, 2024

**CLASS CONTINUE****UNION LEGISLATURE & UNION EXECUTIVE****SESSION: 05**

15 JANUARY, 2024

□ **Union Legislature**◦ **Organisation of Parliament**

- ▶ Qualifications and Disqualifications for being a Member of Parliament (Article 84)
- ▶ Functioning of the Parliament
- ▶ Sessions of Parliament
- ▶ Devices of Parliamentary Proceedings
- ▶ Legislative Assembly (Vidhan Sabha)

## ▶ Powers and Functions

- ▶ Speaker & Deputy Speaker
  - ▶ Parliament's Control over State Legislature
  - ▶ Parliamentary Privileges and Immunities
  - ▶ Collective Privileges of the House
  - ▶ Individual Privileges
- **Parliament, Lok Sabha and Rajya Sabha**
- ▶ Lok Sabha Composition

- ▶ Rajya Sabha Composition
- ▶ Presiding Officers of the Parliament
- ▶ Speaker
- ▶ Powers & Functions of the speaker
- ▶ Deputy Speaker
- ▶ Panel of Chairpersons of Lok Sabha
- ▶ Speaker Pro Tem
- ▶ Chairman of Rajya Sabha
- ▶ Deputy Chairman of Rajya Sabha
- ▶ Panel of Vice-Chairpersons of Rajya Sabha
- ▶ Chairman and Deputy chairman of the Council of States
- **Legislative Procedure and Committees of Parliament**
  - ▶ Legislative Procedure in Parliament
  - ▶ Ordinary Bill
  - ▶ Money Bill
  - ▶ Financial Bill
  - ▶ Constitution Amendment Bill
  - ▶ Lapsing of Bills
  - ▶ Annual Financial Statement: Budget (Article 112)
  - ▶ Demand of Grants
  - ▶ Appropriation Bill
- ▶ Cut motions
- ▶ Stages in Enactment of Budget
- ▶ Other Grants
- ▶ Related Information of Budget
- ▶ Parliamentary committees
- ◻ **Union Executive**
  - **President**
    - ▶ Eligibility
    - ▶ Conditions of Office
    - ▶ Term of Office
    - ▶ Election
    - ▶ Manner of Election
    - ▶ Vacancy in the Office of President
    - ▶ Powers of the President
  - **Vice President**
    - ▶ Qualification
    - ▶ Conditions of Office
    - ▶ Term of Office
    - ▶ Election
    - ▶ Removal
    - ▶ Vacancy
    - ▶ Functions of the Vice-President
  - **Prime Minister**
    - ▶ Appointment of Prime Minister
    - ▶ Deputy Prime Minister
    - ▶ Prime Minister's Office
    - ▶ Eligibility
    - ▶ Powers and Functions of Prime Minister



	<ul style="list-style-type: none"> <li>▶ Relationship between the President and the Prime Minister</li> <li>◦ <b>Union Council of Minister</b> <ul style="list-style-type: none"> <li>▶ Article 74</li> <li>▶ Article 75</li> <li>▶ Article 77</li> <li>▶ Article 78</li> <li>▶ Nature of advice by</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Ministers</li> <li>▶ Strength of the Council</li> <li>▶ Appointment of a Non-legislator as a Minister</li> <li>▶ Collective responsibility of the Ministers</li> <li>▶ Individual Responsibility of Ministers</li> </ul>
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<b>SESSION: 06</b> <hr/> 16 JANUARY, 2024	<b>CLASS CONTINUE</b>
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<b>STATE LEGISLATURE &amp; STATE EXECUTIVE</b>	
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<b>SESSION:07</b> <hr/> 17 JANUARY, 2024	<ul style="list-style-type: none"> <li>□ <b>State Legislature</b> <ul style="list-style-type: none"> <li>◦ State legislature</li> <li>◦ The composition of Vidhan Sabha and Vidhan Parishad</li> <li>◦ Qualifications of the Members of Legislature</li> <li>◦ Powers and Functions of State Legislature</li> <li>◦ Relationship between both the Houses</li> <li>◦ Officers of State Legislature</li> <li>◦ Powers, Privileges and Immunities of State Legislatures and their Members</li> <li>◦ Legislative procedure</li> <li>◦ Governor's assent to Bills</li> <li>◦ Procedure in Financial Matters/Budget</li> </ul> </li> <li>◦ Legislative Council (Article 169)</li> <li>◦ Qualifications</li> <li>◦ Powers and Functions</li> </ul>	<ul style="list-style-type: none"> <li>□ <b>State Executive</b> <ul style="list-style-type: none"> <li>◦ <b>Governor</b> <ul style="list-style-type: none"> <li>▶ Article 152: Definition</li> <li>▶ Article 153: Governors of States</li> <li>▶ Article 154: Executive power of State</li> <li>▶ Discretionary power</li> <li>▶ Article 155: Appointment of Governor</li> <li>▶ Article 156: Term of office of Governor</li> <li>▶ Article 157: Qualifications for Appointment as Governor</li> </ul> </li> </ul> </li> </ul>
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	<ul style="list-style-type: none"> <li>▶ Article 158: Conditions of Governor's office</li> <li>▶ Article 159: Oath or affirmation by the Governor</li> <li>▶ Article 160: Discharge of the functions of the Governor in certain contingencies</li> <li>▶ Article 161</li> <li>▶ Article 162: Extent of executive power of State</li> <li>▶ Recommendations on the office of Governor</li> <li>▶ ARC (Administrative Reforms Commission)</li> <li>▶ Sarkaria Commission</li> <li>▶ National Commission to Review the working of the Constitution</li> <li>◦ The Chief Minister and the CoM</li> <li>◦ Powers and Functions of Chief Minister</li> <li>◦ Composition of the Council of Ministers</li> <li>◦ Responsibility of Ministers</li> <li>◦ Advocate-General for the State</li> </ul>
<p><b>SESSION: 08</b></p> <p><b>18 JANUARY, 2024</b></p>	<p style="text-align: center;"><b>JUDICIARY</b></p> <ul style="list-style-type: none"> <li>◦ Broad features of our judicial system</li> <li>◦ Supreme Court: Composition and Appointment of Judges</li> <li>◦ Terms and Removal of Supreme Court Judges</li> <li>◦ Independence of Supreme Court</li> <li>◦ Jurisdiction of SC</li> <li>◦ Appointment of High Court Judges</li> <li>◦ Terms, Removal, and Transfer of High Court Judges</li> <li>◦ Jurisdictions and power of SC</li> <li>◦ Jurisdictions and power of High Courts</li> <li>◦ Supreme Court vs. High Court</li> <li>◦ Lower judiciary: Appointment, Jurisdictions and Power</li> <li>◦ Judicial Review, activism, restraints</li> <li>◦ Public interest litigation (PIL)</li> <li>◦ Tribunals: Types, composition, Power and functions</li> <li>◦ NALSA, Lok Adalats, Gram Nyayalayas, Lokpal and Lok Ayuktas</li> <li>◦ Law Commission of India, Bar Council of India</li> <li>◦ E-Courts, Tele-law initiative, etc.</li> </ul>

<p><b>SESSION: 09</b></p> <hr/> <p><b>19 JANUARY, 2024</b></p>	<p style="text-align: center;"><b>SYSTEM OF GOVERNANCE</b></p> <ul style="list-style-type: none"> <li>□ <b>Centre-State Relations</b> <ul style="list-style-type: none"> <li>○ Legislative relations (Articles) 245</li> <li>○ Related to Territorial Powers</li> <li>○ Related to Legislative Powers</li> <li>○ Related to Parliament's Power to make Laws in State</li> <li>○ Sarkaria Commission's Opinion on Legislative Relations</li> <li>○ Administrative Relations</li> <li>○ Delegation of Union Functions to the States</li> <li>○ Sarkaria Commission's Opinion on Administrative Relations</li> <li>○ Financial relations</li> <li>○ National Integration Council</li> </ul> </li> <li>□ <b>Inter State Relation</b> <ul style="list-style-type: none"> <li>○ Interstate water dispute</li> <li>○ Interstate councils</li> <li>○ Interstate trade and commerce</li> <li>○ Zonal Councils</li> </ul> </li> <li>□ <b>Special Provisions for some States</b> <ul style="list-style-type: none"> <li>○ Provisions for Maharashtra and Gujarat, Nagaland, Assam and Manipur</li> <li>○ Provisions for Jammu and Kashmir (A370) (now abrogated)</li> </ul> </li> <li>□ <b>Types of Emergencies</b> <ul style="list-style-type: none"> <li>○ National Emergency</li> <li>○ Constitutional/State Emergency /President's Rule</li> <li>○ Financial Emergency</li> </ul> </li> </ul>
<p><b>SESSION: 10</b></p> <hr/> <p><b>20 JANUARY, 2024</b></p>	<p style="text-align: center;"><b>CLASS CONTINUE</b></p>
<p><b>SESSION: 11</b></p> <hr/> <p><b>22 JANUARY, 2024</b></p>	<p style="text-align: center;"><b>LOCAL GOVERNANCE, SPECIAL AREAS &amp; UNION TERRITORIES</b></p> <ul style="list-style-type: none"> <li>□ <b>Local Governance</b> <ul style="list-style-type: none"> <li>○ Evolution of the third tier governance in India</li> <li>○ 73rd AA</li> <li>○ 74th AA</li> <li>○ Compulsory and Voluntary Provisions</li> </ul> </li> <li>○ PESA Act</li> <li>○ Types of urban local bodies</li> <li>○ Tenure and Election of the Local bodies</li> </ul>

- XIth and XIIth Schedules
- Local Governance: Significance and Problems associated
- Role of State Election Commission
- Role of State Finance Commission
- 5th schedule areas and 6th schedule areas
- Tribal sub plan
- Autonomous Councils
- Role of Governor and President with respect to tribal areas
- Special Provisions for Some States
- **Special Areas**
  - Administration of Scheduled Areas
  - Administration of Tribal Areas
- **Union Territories**
  - Creation and categories
  - Administration of Union Territories

## CONSTITUTIONAL AND NON-CONSTITUTIONAL BODIES + POLITICAL DYNAMICS

### SESSION: 12

23 JANUARY,  
2024

- **Constitutional and Non-Constitutional bodies**
  - Comptroller and Auditor General of India
  - Attorney and advocate general
  - Union Public Service Commission, SPSC, JPSC
  - Election Commission
  - Finance Commission
  - Goods and Services Tax Council
  - National Commissions for SCs, STs, BC
  - National Commission for Women
  - National Commission for Minorities
  - NITI Aayog
  - National Human Rights Commission of India,
- SHRC
  - Central Information Commission, ICs, SIC,
  - Central Vigilance Commission, Central Bureau of Investigation
  - National Disaster Management Authority
  - National Investigation Agency
- **Political dynamics**
  - Representation of People Act, 1950 and 1951
  - Electoral reforms, State funding of Elections, Electoral Bonds
  - Criminalization of politics, Irregularities in polling, Negative or neutral voting

	<ul style="list-style-type: none"> <li>◦ Political parties in India, Party reforms, Problems in the working of parties</li> <li>◦ Anti-Defection Law, Strengthening of Anti-</li> </ul>	<ul style="list-style-type: none"> <li>defection measures</li> <li>◦ Pressure groups: Types, Functions, Role in Democracy and Criticism</li> </ul>
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**GOVERNANCE**

<p><b>SESSION: 13</b></p> <hr/> <p><b>24 JANUARY, 2024</b></p>	<ul style="list-style-type: none"> <li>◻ <b>Structure of Ministries/ departments</b> <ul style="list-style-type: none"> <li>◦ Secretariat organization: Functions of the secretariat, Functions of attached and subordinate office</li> <li>◦ Advantages of the separation of secretariat and executive organization</li> <li>◦ Strengths and weaknesses of the existing structure, Recommendations for improving the Organizational structure</li> <li>◦ Rights and Liabilities of the Government</li> <li>◦ Foreign Policy</li> </ul> </li> <li>◻ <b>Schemes, Policy and initiatives</b> <ul style="list-style-type: none"> <li>◦ Special Provisions Relating to Certain Classes</li> <li>◦ Schemes related to the health sector, NFHS survey</li> <li>◦ National Education Policy, Schemes related to the education</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>◦ Schemes related to the Vulnerable Sector</li> <li>◦ Rural development and poverty alleviation programmes</li> <li>◦ Schemes related to the urban dwellers</li> <li>◦ Schemes related to WASH</li> <li>◦ Bills/Acts</li> <li>◦ Miscellaneous</li> <li>◻ <b>Recent Developments</b> <ul style="list-style-type: none"> <li>◦ Hate Speech Online</li> <li>◦ Marital rape, an indignity to women</li> <li>◦ Caste Census</li> <li>◦ Gender technology gap</li> <li>◦ Issue of Marriageable Age for Women</li> <li>◦ Global Social Mobility Index</li> <li>◦ Khushi and Ujjawala Sanitary napkin initiatives</li> <li>◦ Bharatiya Poshan Krishi Kosh</li> <li>◦ School Education Quality Index</li> <li>◦ Samagra Shiksha Abhiyan</li> <li>◦ e-Lok Adalats</li> </ul> </li> </ul>
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	<ul style="list-style-type: none"> <li>◦ Armed Forces Tribunal</li> <li>◦ 'Private Property as a human right</li> <li>◦ Article 32 and its ever changing interpretation</li> <li>◦ Freebies Politics in India</li> <li>◦ Simultaneous Elections</li> <li>◦ Recusal in Judiciary</li> <li>◦ Information Technology (Intermediary Guidelines and Digital Media Ethics Code) Rules 2021</li> <li>◦ Right to be Forgotten</li> <li>◦ Criminal Justice System</li> <li>◦ One Nation One Ration Card</li> <li>◦ E-Gram Swaraj Portal</li> <li>◦ Ayushman Bharat Health Account mobile application</li> </ul>
<p><b>SESSION: 14</b></p> <hr/> <p>25 JANUARY, 2024</p>	<p><b>CLASS CONTINUE</b></p>
<p>28 JANUARY, 2023</p>	<p><b>POLITY &amp; GOVERNANCE REVISION TEST</b></p>

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# GEOGRAPHY

## GENERAL GEOGRAPHY & GEOMORPHOLOGY

### SESSION: 15

29 JANUARY,  
2024

#### □ General Geography

- Geological Time Scale
- Origin of universe: various theories
- Origin of stars
- Origin and evolution of Sun
- Sun: Structure, features
- Solar storms, Magnetism, Auroras
- Solar system
- Planet formations
- Origin and evolution of Earth
- Origin of life on earth
- Moon, its origin, influence on earth
- Non-planetary celestial bodies
- Miscellaneous
- Kuiper belt
- Goldilocks zone
- Circumstellar habitable zone
- Interstellar space

#### □ Earth's Interior

- Sources of information about the interior of Earth
- Earth's structure (interior)
- Crust
- Mantle

- Earth Cores
- Various Discontinuity
- Lithosphere
- Magma Formation
- Earthquake: Causes, types, effects
- Earthquake Waves
- Measuring Earthquakes
- Volcanism
- Volcanic materials
- Volcanic landforms: Intrusive Forms and Extrusive Forms

#### □ Distribution of Oceans and Continents

- Continental Crust and Oceanic crust
- Continental drift theory, and Evidences
- Post-drift Studies: Convectional Current Theory and Ocean Floor mapping
- Concept of sea floor spreading
- Plate Tectonics: Theory and evidences
- Plates of the world
- Types of plate boundaries: Theory, features
- Types of plate boundaries: Examples

- Distribution of earthquake and volcanoes
- Rate and Force for the Plate Movement
- Indian plate
- **Rocks and Minerals**
  - Rocks: types, examples
  - Rock cycle
  - Mineral: Types, examples
  - Mineral: Rocks
- **Geomorphic Processes**
  - Agents of Geomorphic Processes
  - Endogenic processes
  - Orogenic process
  - Folding
  - Faulting
  - Epeirogenic process
- Mass Wasting
- Exogenic processes
- Weathering: features, agents
- Weathering: Effects and significances
- Weathering: types
- Soil profile
- Process of Soil Formation
- Factors of Soil Formation
- **Landforms and their Evolutions**
  - Fluvial landforms
  - Landforms by Groundwater
  - Glacial Landforms
  - Aeolian Landforms
  - Coastal Landforms

**SESSION: 16**30 JANUARY,  
2024**CLASS CONTINUE****CLIMATOLOGY****SESSION: 17**31 JANUARY,  
2024

- **Climatology**
  - Composition of Air
  - Structure of atmosphere
  - Solar Radiation Heat Balance, Heat budget
  - Insolation, Variability of Insolation at the surface of the Earth, Albedo
  - Rotation on Axis , Angle of Inclination of sun rays , Length of the day
- Reason of the season
- Heating and cooling of atmosphere
- Terrestrial Radiation, Shortwave Radiation, Long wave Earth Radiation
- Factors controlling Temp distribution, Inversion of Temperature, impact



	<ul style="list-style-type: none"> <li>◦ Atmospheric Pressure, Vertical variation of pressure, Horizontal distribution of pressure, World Distribution of Sea Level Pressure</li> <li>◦ Factors affecting the velocity and direction of the Wind</li> <li>◦ Atmospheric Circulation and Weather Systems</li> <li>◦ Latitudinal Variation of Atmospheric Heating</li> <li>◦ Pressure Belts, Migration of Belts Following apparent Path of Sun</li> <li>◦ Global Circulation – Hadley Cell, Ferrel Cell</li> <li>◦ Pattern of Planetary Winds</li> <li>◦ Seasonal Wind, Local Wind, Land and Sea</li> </ul>	<ul style="list-style-type: none"> <li>Breezes, Mountain and Valley Winds</li> <li>◦ Air mass &amp; fronts, Important Streams (Jets), Local streams, and their impacts</li> <li>◦ Tropical Cyclone</li> <li>◦ Extra Tropical Cyclone</li> <li>◦ Water in the Atmosphere, Water Vapour, variation, Humidity – Absolute and Relative</li> <li>◦ Precipitation, Saturation</li> <li>◦ Dew Point, Evaporation and Condensation</li> <li>◦ Dew, Frost, Fog &amp; Mist, snowfall etc</li> <li>◦ Clouds: formation, types,</li> <li>◦ Precipitation: Rainfall, Snowfall, Sleet Hail, Hailstones</li> <li>◦ Types of Rainfall</li> </ul>
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**SESSION: 18**  


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**01 FEBRUARY, 2024**

**CLASS CONTINUE**

**SESSION:19**  


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**02 FEBRUARY, 2024**

**OCEANOGRAPHY**

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| <ul style="list-style-type: none"> <li>□ <b>Hydrosphere</b> <ul style="list-style-type: none"> <li>◦ Water on the Surface of the Earth</li> <li>◦ Hydrological Cycle</li> </ul> </li> <li>□ <b>Submarine Relief Features</b> <ul style="list-style-type: none"> <li>◦ Oceans</li> <li>◦ Relief of the Ocean floor</li> <li>◦ Divisions of the ocean floor</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>□ <b>Minor relief features</b> <ul style="list-style-type: none"> <li>◦ Mid oceanic ridges</li> <li>◦ Seamount</li> <li>◦ Submarine canyons</li> <li>◦ Guyouts</li> <li>◦ Volcanic Islands</li> <li>◦ Fracture Zones</li> <li>◦ Hotspots</li> </ul> </li> </ul> |
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	<ul style="list-style-type: none"> <li>◦ Coral Islands</li> <li>◦ Atoll</li> <li>□ <b>Temperature &amp; Salinity</b> <ul style="list-style-type: none"> <li>◦ Temperature of the Ocean Water</li> <li>◦ Salinity of the Ocean Water</li> <li>◦ Factors affecting salinity</li> <li>◦ Density of Ocean Waters</li> </ul> </li> <li>□ <b>Waves, Ocean Currents, Tides</b> <ul style="list-style-type: none"> <li>◦ Movements of ocean Water</li> <li>◦ Factors influencing Movement</li> <li>◦ Motion – Horizontal and Vertical Currents</li> <li>◦ Waves</li> <li>◦ Tides</li> <li>◦ Ocean Currents</li> </ul> </li> <li>□ <b>Marine Resources</b> <ul style="list-style-type: none"> <li>◦ Underground water</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>resource</li> <li>◦ Surface water resources</li> <li>◦ Inland water resources: Utilization of inland water resources</li> <li>◦ Oceanic Water Resources (Marine Resource)</li> <li>◦ Utilization of oceans by man</li> <li>◦ Water consumption patterns</li> <li>◦ Conservation of Water Resources</li> <li>◦ Techniques of Water Conservation</li> <li>□ <b>Ocean Deposits and Corals</b> <ul style="list-style-type: none"> <li>◦ Terrigenous Deposits</li> <li>◦ Volcanic Deposits</li> <li>◦ Biotic deposits</li> <li>◦ Abiotic Deposits</li> <li>◦ Coral Reefs</li> <li>◦ Great Barrier Reef</li> </ul> </li> </ul>
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**SESSION: 20**03 FEBRUARY,  
2024**CLASS CONTINUE****WORLD CLIMATE + BIOGEOGRAPHY****SESSION: 21**05 FEBRUARY,  
2024

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| <ul style="list-style-type: none"> <li>□ <b>World Climate</b> <ul style="list-style-type: none"> <li>◦ The Hot, Wet Equatorial Climate, vegetation</li> <li>◦ The Tropical Monsoon and Tropical Marine Climates, vegetation</li> <li>◦ The Savanna or Sudan</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>Climate, grassland</li> <li>◦ The Hot Desert and Mid-Latitude Desert Climates, vegetation</li> <li>◦ The Warm Temperate Western Margin (Mediterranean) Climate, vegetation</li> </ul> |
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	<ul style="list-style-type: none"> <li>◦ The Temperate Continental (Steppe Climate), grasslands</li> <li>◦ The Warm Temperate Eastern Margin (China Type Climate), vegetation</li> <li>◦ The Cool Temperate Western Margin (British Type Climate), vegetation, The Cool Temperate Continental (Siberian) Climate, vegetation</li> <li>◦ The Cool Temperate Eastern Margin (Laurentian) Climate, vegetation</li> <li>◦ The Arctic or Polar Climate, vegetation</li> <li>◦ Forestry: Social forestry, Agro-forestry, Farm Forestry, Community Forestry</li> </ul> <p>□ <b>Soil Characteristics</b></p> <ul style="list-style-type: none"> <li>◦ Factors Responsible for Soil Formation</li> <li>◦ Stages of Soil Formation</li> <li>◦ Soil Forming Processes</li> <li>◦ Soil Profiles and Horizons</li> </ul> <ul style="list-style-type: none"> <li>◦ Soil Classification</li> <li>◦ Soil Erosion and Conservation</li> </ul> <p>□ <b>Vegetation Resources</b></p> <ul style="list-style-type: none"> <li>◦ Types of natural vegetation</li> <li>◦ Forests</li> <li>◦ Significance of forests</li> <li>◦ Economic significance, Ecological significance</li> <li>◦ Cultural significance</li> <li>◦ Factors of forest development</li> <li>◦ Extent of forest cover</li> <li>◦ Classification of forests</li> <li>◦ Grasslands</li> <li>◦ Desert vegetation</li> <li>◦ Tundra Vegetation</li> <li>◦ Economic utilization of forests</li> <li>◦ Deforestation</li> <li>◦ Deforestation in tropical forests</li> <li>◦ Deforestation in temperate forests</li> </ul>
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**PHYSICAL GEOGRAPHY OF INDIA**

<p><b>SESSION: 22</b></p> <p><b>06 FEBRUARY, 2024</b></p>	<p>□ <b>Location of India</b></p> <ul style="list-style-type: none"> <li>◦ Latitude, longitude, of India</li> <li>◦ Geographical extremes of India</li> <li>◦ India and its Neighbors</li> <li>◦ Key Channels, Straits of the Indian Ocean</li> </ul> <p>□ <b>Physiography of India</b></p> <ul style="list-style-type: none"> <li>◦ Geological Divisions</li> <li>◦ Physiographic Divisions</li> <li>◦ Historiography of Indian Plate movement</li> <li>◦ Peninsular Block</li> </ul>
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- Formations of Himalayas
- Division of Himalayas
- Peaks, passes, glaciers
- Faults of Himalayas
- Northern plains: features
- Northern plains: Division
- Peninsular Plateau: Features
- Peninsular Plateau: Division
- Peninsular Plateau: Location, peaks, pass, etc.
- Indian Desert
- Coastal Plains
- Islands of India
- ◻ **Drainage System of India**
  - Evolution of drainage system of Himalayas
  - Evolution of drainage system of Peninsular India
  - Indus River system
  - Ganga River System
  - Brahmaputra river system
  - Other rivers of Northeast
  - Peninsular Rivers Flowing towards the East
  - Peninsular Rivers Flowing towards the West
  - Narmada and tributaries
  - Krishna and tributaries
  - Kaveri and tributaries
  - Yamuna and tributaries
  - Rivers of Central India
  - Rivers of West India
  - Famous cities on the banks
  - Key River projects, bridges

## CLIMATE & BIOGEOGRAPHY OF INDIA

- ◻ **Climate of India**
  - Seasonal rhythm
  - Koppen's Climatic classification
  - Factors Determining the Climate of India
  - Mechanism of Weather in the Winter Season
  - Mechanism of Weather in the Summer Season
  - Monsoon: Features, location, extent, etc.
  - Monsoon: Causative Factors
  - Monsoon: Influencing Factors
  - Mechanism of the Monsoon
  - South-West Monsoon
  - Retreating Monsoon
  - North-East Monsoon
  - Impact of tropical cyclones on India
  - Spatio-temporal Distribution of Tropical Cyclone in India

**SESSION:23**

**07 FEBRUARY,  
2024**

- Impact of Temperate cyclones and western disturbances on India
- Climatic Regions of India
- Distribution of Rainfall
- El-Nino and La-Nina
- Indian Droughts and Floods
- Monsoons and the Economic Life in India
- Landslides, glacial outbursts

◻ **Biogeography of India**

- Soils of India: Types
- Soils of India: Features
- Soil Acidity, textures, ingredients
- Soil Erosion in India
- Soil Conservation efforts
- Types of Forests in India
- Forests: location
- Forests: features
- Forest Cover in India

**HUMAN & ECONOMIC GEOGRAPHY OF INDIA AND THE WORLD**

◻ **Human Geography of India and the World**

- Nature of Human geography
- Population growth
- Migrants, and Refugees in India
- Demographic transition theory
- Human Development, human development index (HDI), MPI, etc.
- Characteristics of population: Age composition, Population pyramids, Sex composition, Literacy
- Population Policies of India
- Various types of rural settlements
- Urbanization, Issues of

Urbanization in India

- Urban settlements: types; Morphology of urban settlements
- Urban Transportation, recent programmes
- Rural-urban fringe
- Census Terminologies

◻ **Economic Geography of India and the World**

- Types of Agriculture, Co-operative and collective Farming
- Climatic conditions of some crops
- Cultivation methods, intercropping
- Breeds of some crops
- Water resources of India
- Livestock Census of India: Recent Reports

**SESSION: 24**

**08 FEBRUARY, 2024**

- State wise Livestock products
- World Agricultural: producers, locations
- Cultivation of GM Crops
- Methods of Mining
- Mineral resources: Iron of the world
- Iron Resources in India and production
- Bauxite Resources in India and production
- Graphite, and lithium Resources in India and production
- Rare Earths metals: features and reserves in India and the world
- Uranium and Thorium reserves in India
- Countries with the largest oil reserves and production
- Countries with the largest coal reserves and production
- India: Energy resources
- Coal-bed Methane, Gas Hydrates, Shale Oil/Shale Gas
- Biofuels, 2G Ethanol Programme
- Electricity, Generation, capacity
- Hydropower projects, thermal projects
- Renewable energy resources
- Factors influencing industrial locations
- Industrial Regions of the world
- Some key industries of India
- Tertiary and Quaternary Activities, quinary activities
- National highways, transport corridors
- Railways of India
- Ports of India
- National Waterways
- ◻ **Recent Developments**
  - Rates of desertification of Indian states esp. North Eastern states
  - Transition to Climate-Smart Crops
  - Marine heat waves
  - Atlantic Meridional Overturning Circulation (AMOC)
  - Lithium Reserves in India
  - East African Rift system, breaking away with Madagascar
  - India Cooling action plan
  - Climate Vulnerability Map of India
  - Bamboonomics
  - Miyawaki Method
  - Minerals found in arctic permafrost
  - Rice knowledge Bank
  - Global Agriculture and food security programme

<b>SESSION: 25</b> <b>09 FEBRUARY,</b> <b>2024</b>	<b>CLASS CONTINUE</b>
<b>11 FEBRUARY,</b> <b>2024</b>	<b>GEOGRAPHY REVISION TEST</b>

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# SCIENCE & TECHNOLOGY

## FUNDAMENTALS OF PHYSICS, CHEMISTRY, AND BIOLOGY & THEIR APPLICATION IN DAILY LIFE

### SESSION: 26

12 FEBRUARY,  
2024

#### □ Fundamentals of Physics

- Properties of fundamental particles
- Fundamental forces
- Energy and its various types
- Fundamental Optics
- Electromagnetic spectrum
- Laws and theories in physics, Relativity
- Electromagnetism
- Heat and thermodynamics
- Waves
- Mechanical
- Electromagnetic waves
- Universe
  - ▶ Planets, stars, and galaxies
  - ▶ Big-bang theory and singularity
  - ▶ Dark matter and energy
  - ▶ Black holes
  - ▶ Neutrino Observatory
  - ▶ Gravitational Waves
  - ▶ Sunspot
  - ▶ Magnetars and Neutron stars
  - ▶ Sub-atomic particles

#### □ Fundamentals of Chemistry

- Elements and molecules
- States of Matters
- Atomic structure
- Chemical bonding
- Metals and non-metals
- Metallurgy
- Acid and base
- Applications of electrochemistry (Battery and Charging devices)
- Properties of solution
- Chemicals in everyday life
- Polymers and Biopolymers
- Chemistry of Pharmaceuticals
- Carbon and its allotropes
- Hydrocarbons and their derivatives
- Biomolecules
- Vitamins and Enzymes

#### □ Fundamentals of Biology

- Chemical Building Blocks of Life
- History and Origin of Life
- Diversity of Living Things
  - ▶ Classification and Domains of Life

- ▶ Viruses
- ▶ Prokaryotes
- ▶ Eukaryotes
- ▶ Protists
- ▶ Plants
- ▶ Fungi
- ▶ Animals
- **Evolution**
  - ▶ Evolution of Life
  - ▶ Human Evolution
- **Genetics**
  - ▶ Inheritance
  - ▶ DNA and RNA
  - ▶ Gene Expression
  - ▶ Gene Regulation
  - ▶ Mutation
- **Cells**
  - ▶ Cell Structure
  - ▶ Membranes
  - ▶ Cell-Cell Interactions
  - ▶ Respiration
  - ▶ Energy and Metabolism
  - ▶ Cells Division
- **Tissues**
  - ▶ Epithelial tissue
  - ▶ Connective tissue
  - ▶ Muscle tissue
  - ▶ Nervous
  - ▶ Myocardial
  - ▶ Hepatic
- **Organ system and Human physiology**
  - ▶ Endocrine System
  - ▶ Respiratory system
- ▶ Circulatory system
- ▶ Skeletal and Muscular Systems
- ▶ Reproduction
- ▶ Excretion, Osmoregulation and Thermoregulation
- ▶ The Digestive System
- ▶ Immune system
- **Nutrition**
  - ▶ Classification by Source of Energy and Carbon
  - ▶ Plant Nutrition
  - ▶ Animal Nutrition
  - ▶ Human Diet
- **Plant physiology**
  - ▶ Photosynthesis
  - ▶ Respiration
  - ▶ Plant-water balance
  - ▶ Reproduction
- **Economic Zoology**
  - ▶ Microbes in Human Welfare
  - ▶ Beneficial animals
  - ▶ Beneficial insects
- **Economic botany**
  - ▶ Family of angiosperms
  - ▶ Tissue culture
  - ▶ Grafting
  - ▶ Horticulture
- ◻ **Imaging techniques**
  - CT scan
  - Magnetic resonance imaging

	<ul style="list-style-type: none"> <li>◦ Positron emission tomography (PET)</li> <li>◦ <b>Biological fuel generation</b></li> <li>◦ Generation and significance of fossils</li> </ul>	<ul style="list-style-type: none"> <li>fuels</li> <li>◦ Biofuels from biomass</li> <li>◦ Biodiesel</li> <li>◦ Natural gas and petroleum</li> <li>◦ Hydrogen</li> </ul>
<p><b>SESSION: 27</b></p> <p><b>13 FEBRUARY, 2024</b></p>	<p><b>HEALTH AND DISEASES; BIOTECHNOLOGY AND APPLICATIONS; NUCLEAR ENERGY AND TECHNOLOGY</b></p>	
	<ul style="list-style-type: none"> <li>◦ <b>Health and Diseases</b></li> <li>◦ <b>Human Diseases</b> <ul style="list-style-type: none"> <li>▶ Common diseases in human and their causative agents</li> <li>▶ Diseases due to nutrient deficiency</li> <li>▶ Molecular biology and human disease</li> <li>▶ Chromosomal inheritance and disease</li> <li>▶ Extra chromosomal inheritance and disease</li> <li>▶ Vector borne diseases</li> <li>▶ Water borne diseases</li> <li>▶ Lifestyle diseases</li> </ul> </li> <li>◦ Immunity and its types</li> <li>◦ Vaccination and Immunisation</li> <li>◦ Vaccination program of India</li> <li>◦ <b>Medicines</b> <ul style="list-style-type: none"> <li>▶ Antibiotics</li> <li>▶ Antiviral and antifungal drugs</li> <li>▶ Monoclonal antibodies</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>therapy</li> <li>▶ Antimicrobial drug resistance</li> <li>▶ Drug formulations</li> <li>▶ Drug pricing in India</li> <li>▶ Pharmacogenetics</li> <li>◦ <b>Biotechnology and applications</b></li> <li>◦ Genetic engineering, process, and application</li> <li>◦ Genomics</li> <li>◦ Proteomics</li> <li>◦ RNA types and technology</li> <li>◦ Genome sequencing and its applications</li> <li>◦ <b>Application of biotechnology in Environment</b> <ul style="list-style-type: none"> <li>▶ Bio composting</li> <li>▶ Bioremediation</li> <li>▶ Microbial remediation</li> <li>▶ Carbon capture Technology</li> </ul> </li> <li>◦ <b>Plant biotechnology</b> <ul style="list-style-type: none"> <li>▶ Transgenic plants</li> </ul> </li> </ul>

- ▶ Methods and application of Plant biotechnology
- **Animal biotechnology**
  - ▶ Transgenic animals
  - ▶ Methods and application of Animal biotechnology
- **Application of Biotechnology in Food and beverage industry**
  - ▶ Bioprocessing
  - ▶ Bioreactors
  - ▶ Manipulation of Enzymes
  - ▶ Food processing
  - ▶ Single cell protein
  - ▶ Food fortification
- **Application of Biotechnology in agriculture**
  - ▶ GM technology
  - ▶ GM crops
  - ▶ Pest Resistant Plants
- **Biotechnology and medicine**
  - ▶ Gene Editing
  - ▶ Gene therapy
- **Molecular Diagnosis**
  - ▶ PCR
  - ▶ ELISA
  - ▶ Antibody-Antigen interactions and detections
  - ▶ Embryo transfer technology
- ▶ Stem cells and their engineering
- ▶ Biopharmaceuticals/ therapeutic proteins
- ▶ Brain fingerprinting technology
- Bioethics and Biopiracy
- Biosafety protocols
- IPR in Biotechnology
- Recent trends in biotechnology and applied biotechnology
- ◻ **Nuclear energy and Technology**
  - Types of nuclear reactions
  - Nuclear Energy and its application
    - ▶ Civil and military applications of Nuclear Energy
  - Nuclear fuels and centrifugation
  - Nuclear Reactor
  - Nuclear Policy of India
  - Nuclear Radiation and its impact
  - Radioactive Waste
  - Nuclear & Radiological Disasters
  - Institutions involved in nuclear energy Development
    - ▶ Department of Atomic Energy
    - ▶ Atomic Energy Regulatory Board

▶ Bhabha Atomic Research Centre

▶ Indira Gandhi Centre for Atomic Research

**SESSION: 28**

14 FEBRUARY,  
2024

**CLASS CONTINUE**

**SPACE SCIENCE AND TECHNOLOGY; DEFENSE TECHNOLOGY AND DEFENSE EXERCISES; NANOTECHNOLOGY AND ITS APPLICATION**

□ **Space**

- Types of orbits
- Types of Launch Vehicles and application
- Space missions of key space agencies
  - ▶ NASA
  - ▶ ISRO
  - ▶ ESA
  - ▶ ROSCOSMOS
  - ▶ JAXA
  - ▶ CNSA
- ISRO and its role in national development
- Private sector in space
- Public-private partnership in space sector
- Space technology
  - ▶ Cryogenics
  - ▶ Nanosatellites
  - ▶ Electric Propulsion
  - ▶ Aviation Internet, Starlink communication
  - ▶ Satellite communications
  - ▶ Remote sensing and its applications

- ▶ Ground Segment-As-A-Service
- ▶ Green Propellant
- ▶ Deep Space Atomic Clock
- Strategic dimensions
  - ▶ Space weapons
  - ▶ A-SAT technology
  - ▶ Laser technology
  - ▶ HGV technology
- International space collaboration
- Various space observatories
- Various telemetry
- Navigation
  - ▶ Global Positioning System
  - ▶ Galileo
  - ▶ GLONASS
  - ▶ IRNSS
- Geopolitics of outer space

□ **Defence**

- Missile system and classification
- Ballistics and cruise missile

**SESSION: 29**

15 FEBRUARY,  
2024

- India's Missile System
- Integrated guided missile program
- Missile defence programmes
- Defence Technology
  - ▶ Application of robotics in defence sector
  - ▶ Application of AI in defence
  - ▶ Internet of Military Things (IoMT)
  - ▶ Cyber warfare, and preparedness
  - ▶ Drone technology
  - ▶ Unmanned Aerial Vehicle
  - ▶ Stealth technology
  - ▶ Advanced Defense Equipment
  - ▶ Air Defence system
  - ▶ 3-D printing missiles
  - ▶ Lethal Autonomous Weapons
  - ▶ Hypersonic technology
  - ▶ Hypersonic glide vehicles
  - ▶ Hypersonic cruise missiles
- Weapon system
  - ▶ Classical weapons
  - ▶ Weapon of mass destruction
    - Fission and fusion bombs
    - Chemical Weapons
    - Biological Weapons
  - ▶ Directed Energy Weapons
- Defence reforms
  - ▶ CDS
  - ▶ Various committees and recommendations
- Domains of warfare
- Defence platforms
  - ▶ Submarine
  - ▶ Aircraft carrier
  - ▶ Combat aircraft
- Defence Organizations and laboratories
- Defence Exercises
- ◻ **Nanotechnology and its application**
  - Basics of Nan science and Nanotechnology
  - Nanomaterial
  - Applications of nanotechnology
    - ▶ Nano medicine
    - ▶ Semiconductors and computing
    - ▶ Food
    - ▶ Textiles
    - ▶ Sustainable energy
    - ▶ Environment
    - ▶ Transport
    - ▶ Space
    - ▶ Agriculture
  - Impacts of Nanotechnology
    - ▶ Adverse Health and Environmental
    - ▶ Social and Ethical Impacts
  - Nano-science and nano-technology in India

## IT, ELECTRONICS AND COMMUNICATIONS; AI AND ROBOTICS; INTELLECTUAL PROPERTY RIGHTS; MISCELLANEOUS; RECENT DEVELOPMENTS

**SESSION: 30**

**16 FEBRUARY,  
2024**

### □ IT, Electronics and Telecommunications

- Computers
  - ▶ Generation of computers
  - ▶ Computer terminologies
  - ▶ Supercomputer and its applications
  - ▶ Cloud computing
- Information technology
  - ▶ Components of IT
  - ▶ IT enabled services
  - ▶ Application of IT
- Display technologies
  - ▶ Cathode ray
  - ▶ LCD
  - ▶ LED
  - ▶ Plasma Monitors
  - ▶ OLED
  - ▶ AMOLED
- Mobile generations
- Smartphone
- Net Neutrality
- Internet of Things
- Big Data Initiative and Privacy
- Cyber-crime and security
- Government initiatives

### □ Robotics and AI

- Robotics

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

### ○ AI

- ▶ Neural networks
- ▶ Machine Learning and Deep learning
- ▶ Application of AI

### ○ Artificial Intelligence and Robotics

### □ IPR

- What are Intellectual property rights (IPR)?
- Types of Intellectual Property Rights
- International Agreements and institutions on IPR
- IPR Regime in India
- National Intellectual Property Rights Policy

### □ Miscellaneous

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



	<ul style="list-style-type: none"><li>▶ Department of Science &amp; Technology</li><li>▶ CSIR</li><li>▶ Science and Engineering Research Board</li><li>▶ Technology Development Board</li><li>▶ National Accreditation Board For Testing And Calibration Laboratories</li><li>○ Science and technology as a source of Human Resource Development</li><li>○ Awards related to Science</li><li>○ India and global collaboration in science projects</li></ul>	<ul style="list-style-type: none"><li>○ Technology Vision Document 2035</li><li>□ <b>Recent Developments</b><ul style="list-style-type: none"><li>○ Deepfakes</li><li>○ Web 3.0</li><li>○ Indian Space Association</li><li>○ National Policy for Rare Diseases</li><li>○ Deep Sea Mission</li><li>○ Desalination plants</li><li>○ Digital geological map of moon</li><li>○ NASA's Artemis mission</li><li>○ Genome India Project</li><li>○ National Space Promotion and Authorization Centre</li><li>○ Monkeypox virus</li></ul></li></ul>
<b>SESSION: 31</b> <b>17 FEBRUARY, 2024</b>	<b>CLASS CONTINUE</b>	
<b>18 FEBRUARY, 2024</b>	<b>SCIENCE &amp; TECH REVISION TEST</b>	

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# HISTORY

## ANCIENT HISTORY - 1

**SESSION: 32**

**19 FEBRUARY,  
2024**

- **Pre Historic Times**
  - Evolution of Monarchy
  - Social Organization
  - Economy
  - Religious Practices and Culture
- Periodization of Indian Pre History
- Sources of Pre History
- Palaeolithic Or Old Stone
- Mesolithic Or Middle Stone Age
- Neolithic Age Or New Stone Age
- Chalcolithic Age
- Major Chalcolithic Cultures
- Early Iron Age
- Geographical Distribution and Characteristics
- **Later Vedic Period**
  - Geography of the later Vedic Phases - Area of Settlement
  - Political System
  - Social Organisation and Varna System
  - Economy
  - Religious Practices and Culture
- **Indus Valley Civilization**
  - IVC Geography and Archaeological Findings
  - IVC Society and Culture
  - IVC Economy
  - Harappan Trade
  - Decline of Harappan Culture
- **Jainism**
  - Birth and Life of Mahavira (540- 468 B.C.)
  - Teachings of Mahavira
  - Organisation and Sects of Jainism
  - Literature of Jainism
  - Councils, Spread and Royal Patrons
- **Rig Vedic Period**
  - Sources for Reconstructing Vedic Society and Culture
  - Geography of the Rig Vedic Period - Area of Settlement
  - Political Organisation and
- **Buddhism**
  - Birth and Life of Buddha (563-483 BC)
  - Teachings of Buddha
  - Organisation and Sects of Buddhism
  - Literature of Buddhism

	<ul style="list-style-type: none"> <li>◦ Councils, Spread of and Royal Patronage</li> <li>◦ Causes for the Decline</li> <li>◻ <b>Mahajanapadas Period</b> <ul style="list-style-type: none"> <li>◦ Republics and Monarchies</li> <li>◦ 16 Mahajanapadas</li> <li>◦ Magadha</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>◦ Key Dynasties</li> <li>◦ Persian Invasions</li> <li>◦ Alexander’s Invasion</li> <li>◦ Society and Rise of urban centres</li> <li>◦ Economy</li> <li>◦ System of Administration</li> </ul>
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**ANCIENT HISTORY - 2**

<p><b>SESSION: 33</b></p> <p><b>20 FEBRUARY, 2024</b></p>	<ul style="list-style-type: none"> <li>◻ <b>Mauryan Empire</b> <ul style="list-style-type: none"> <li>◦ Sources: Inscriptions and Sites and</li> <li>◦ Literary Sources (The Arthasastra)</li> <li>◦ Rulers and Political History of the Mauryas</li> <li>◦ Asoka’s Inscriptions and Sites</li> <li>◦ Asokan Reign</li> <li>◦ Asoka and Buddhism</li> <li>◦ Asoka Policy of Dhamma</li> <li>◦ Mauryan Administration</li> <li>◦ Foreign Relations</li> <li>◦ Decline of the Mauryas</li> </ul> </li> <li>◻ <b>Post-Mauryan India</b> <ul style="list-style-type: none"> <li>◦ Society: Evolution of Jatis</li> <li>◦ Satavahanas</li> <li>◦ Sungas and Kanvas</li> <li>◦ Sakas</li> <li>◦ Kushanas</li> <li>◦ Kanishka</li> </ul> </li> <li>◻ <b>Gupta Period</b> <ul style="list-style-type: none"> <li>◦ Sources of Gupta Rule</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>◦ Rulers and Political history of Guptas Chronology</li> <li>◦ Foreign Travellers Visit – Fahien’s Visit</li> <li>◦ Gupta Administration</li> <li>◦ Other Important Dynasties</li> <li>◦ Society Religion and Culture</li> <li>◦ Urban centres in Gupta period</li> <li>◦ Economy</li> <li>◦ Science and Technology</li> <li>◦ Literature</li> <li>◦ Later Guptas</li> <li>◦ Other Important Dynasties</li> <li>◻ <b>Harshavardhana Period</b> <ul style="list-style-type: none"> <li>◦ Harsha Military Conquests</li> <li>◦ Harsha and Buddhism</li> <li>◦ Administration</li> <li>◦ Society and Culture</li> <li>◦ Economy</li> </ul> </li> </ul>
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	<ul style="list-style-type: none"> <li>□ <b>SANGAM PERIOD (SOUTH INDIAN DYNASTIES)</b> <ul style="list-style-type: none"> <li>○ Sangam Literature</li> <li>○ South Indian Dynasties</li> <li>○ Sangam Polity, Society and Culture</li> <li>○ Economy of Sangam Period</li> <li>○ Foreign Dynasties</li> <li>○ Commercial Contacts with the Outside World</li> <li>○ Schools of Art</li> </ul> </li> </ul>
<p><b>SESSION: 34</b></p> <p><b>21 FEBRUARY, 2024</b></p>	<p><b>CLASS CONTINUE</b></p>
<p><b>SESSION: 35</b></p> <p><b>22 FEBRUARY, 2024</b></p>	<p style="text-align: center;"><b>MEDIEVAL HISTORY</b></p> <ul style="list-style-type: none"> <li>○ Major Dynasties (750-1200) Of Early Medieval India</li> <li>○ Cholas And Other South Indian Kingdoms</li> <li>○ Early Muslim Invasions</li> <li>○ The Delhi Sultanate (1206-1526 Ad)</li> <li>○ Struggle For Empire In North India (Afghans, Rajputs And Mughals)</li> <li>○ The Establishment Of The North Indian Empire</li> <li>○ Consolidation And Expansion Of The Empire – Akbar</li> <li>○ State And Government Under Akbar</li> <li>○ Akbar’s Religious Views</li> <li>○ The Deccan And The Mughals (Up To 1657)</li> <li>○ Foreign Policy Of The Mughals</li> <li>○ India In The First Half Of The Seventeenth Century’ Climax And Crisis Of The Mughal Empire: The Marathas And The Deccan</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> <li>○ Northern India In The First Half Of The Eighteenth Century</li> <li>○ Society-Structure And Growth</li> <li>○ Economic Life-Patterns And Prospects</li> </ul>
<p><b>SESSION: 36</b></p> <p><b>23 FEBRUARY, 2024</b></p>	<p style="text-align: center;"><b>ART &amp; CULTURE – 1 (VISUAL &amp; PERFORMING ARTS)</b></p> <ul style="list-style-type: none"> <li>□ <b>Architecture &amp; Sculptures</b> <ul style="list-style-type: none"> <li>○ Architecture of Indus Civilization</li> </ul> </li> </ul>

- Buddhist Architecture
- Cave Architecture
- Gandhara Art
- Mathura Art
- Indo-Saracenic architecture
- Mauryan and Post Mauryan Architecture
- Temple Architecture
- Various dimensions of Nagara Style
- Various dimensions of Dravida Style
- Pallava and Chola Period
- Vesara Style
- Indo-Islamic Architecture: Delhi sultanate
- Indo-Islamic Architecture: Provincial style
- Indo-Islamic Architecture: Mughal School
- Rajput school of Architecture
- Modern Architecture and Sculpture
- Sculptures of Harappan Civilization
- Sculptures of Mauryan and Post-Mauryan Age
- Jain Sculptures
- Buddhist Sculpture
- Gupta Sculpture
- Medieval School of Sculpture
- Bronze Sculpture
- Satvahana Sculptures
- ◻ **Paintings**
  - Ancient Rock Painting
  - Mural Paintings in India, Buddhist Painting
  - Pala School of miniature
  - Mughal School of miniature
  - Paintings in the Deccan
  - Rajput School of Painting
  - Pahari School of Painting
  - Miniature Painting in South India
  - Modern Paintings
- ◻ **Pottery and Numismatic**
  - Pottery tradition of India
  - Coinage systems in Ancient India
  - Coinage systems in Medieval India
- ◻ **Dance, Drama and Music**
  - Concept of Dance in India, and their texts
  - Classical dances
  - Folk Dances of India
  - Hindustani Classical Music
  - Carnatic music
  - Musical Instruments
  - Folk Music and songs
- ◻ **Indian Theatre and Puppetry**
  - Classical Sanskrit Theatre
  - Regional Theatre

- Modern Theatre
- Puppety of India
- Modern Puppety
- Tribal Puppety
- ◻ **Sports**
- Regional Martial arts

## ART & CULTURE – 2 (RELIGION, LANGUAGE & LITERATURE, MISCELLANEOUS & RECENT DEVELOPMENTS)

### ◻ **Religion**

- Buddhism
- Jainism
- Lingayats
- Sikhism
- Sufi Silsilah
- Hinduism
- Schools of Philosophy
- Buddhist Philosophy
- Personalities
- Paticca-Samuppada
- Vajrayana Buddhism

### ◻ **Language & Literature**

- Vedic literature
- Brahmanas and Arayankas
- Budhhist literature
- Jain literature
- Vinaya Pitaka
- Sangam Literature
- Literature during Gupta's era
- Literature during medieval period
- Literature during modern period
- Literature during freedom movement

- Secular Sanskrit literature
- Scientific development in medieval India
- International Memory of the World Register by UNESCO
- Manuscripts

### ◻ **Miscellaneous**

- Festivals of India
- UNESCO's List of Intangible Cultural Heritage
- UNESCO's List of Tangible Cultural Heritage
- UNESCO Records

### ◻ **Recent Developments**

- "Life in Miniature' Project'
- Temples in news
- Schemes related to Art and Culture
- 'Iconic' archaeological Sites
- Archaeological Sites in news
- Tulu Language
- Rogan art
- Jagannath temple Heritage Corridor Project

**SESSION: 37**

**24 FEBRUARY,  
2024**

**SESSION: 38****26 FEBRUARY,  
2024****CLASS CONTINUE****MODERN INDIA - 1****SESSION: 39****27 FEBRUARY,  
2024****□ 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

**□ British Expansion in India**

- Bengal
- Anglo Maratha Wars
- The Subsidiary Alliance System
- Second Phase of British Expansion In India
- The Conquest of Sindh
- Anglo-Sikh Wars

- Doctrine of Lapse
- Annexation of Oudh

**□ Administration before 1857**

- The Dual System
- The Charter Acts
- Judicial System
- Impact of British Administration

**□ Economic Policies of the British**

- Phase of Mercantilism (1757-1813)
- Phase of Free Trade (1813- 1858)
- Phase of Finance Imperialism (1858 onwards)

**□ Impact of British Administration**

- Industrialization—Ruin of Artisans and Handicrafts men
- Impoverishment of Peasantry
- Emergence of New Land Relations, Ruin of Old Zamindars
- Land Revenue Policy
- Impact of British Policy on Indian Economy



- Drain of Wealth Theory
- 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
- **The Revolt of 1857**
  - Causes of the Revolt
  - Centres and Spread of the Revolt
  - Leaders of the Revolt
  - Causes of Failure of the Revolt
  - Nature and Impact of the Revolt

## MODERN HISTORY 2

- **Changes After 1858**
  - Change in Army
  - Change in approach towards princely states
  - GoI Act, 1858
  - Change in Civil Services
  - Administrative changes and policies
  - Hostility to Educated Indians
  - Labour legislations, Factory Acts, Society Registration Act, CrPC (1882, and 1898)
  - Increase in the Racial Antagonism
  - Origin of Local Administration
  - Decentralization of British administration through Acts
  - Important Viceroys, their acts, and impacts
- **Foreign Policy of British India**
  - Conquest of Burma
  - Anglo-Afghan wars
  - Relation with Tibet and China
  - Relation with Bhutan
- **Development of Modern education**
  - Wood's dispatch
  - Various commissions
  - Various Acts
  - Role of Indian Intelligentsia
- **Development of Press**
  - Restrictions on the Press: various Acts
  - Publications and Journals

**SESSION: 40**

**28 FEBRUARY,  
2024**

- Economic Impact of the British Rule
- Impact on agriculture
- Rise of New Landlordism
- Impact on artisans, craftsmen
- Introduction of modern Industries
- Poverty and famines
- **Social Reforms and Personalities**
  - Fractionalization of Brahmo Sabha
  - Reforms towards Women Education
  - Reforms towards widow remarriage
  - Reforms towards child education and child marriage
  - Reforms towards Caste discrimination
  - Reforms by Various religious communities: Muslims, Parsi, Sikhs
  - Reformist vs revivalist approach
  - Ishwar Chandra Vidyasagar
  - Dayanand Saraswati
  - Keshab Chandra Sen
  - Ramkrishna Mission: Paramhansa and Vivekananda
  - Syed Ahmad Khan
  - Impact of socio-religious reforms
- Jyotiba Phule
- MG Ranade
- Others
- **Nationalist Movement 1858- 1905: Organized struggle for Freedom**
  - Causes of Nationalism in this Period
  - Early organizations
  - Formation of Indian National Congress
  - Struggle within: Moderates vs. Extremists
  - Approach of Moderates
  - Approach of Extremists
  - Rise of revolutionary activities: causes, and impacts
  - Early revolutionary organizations, approach & methods, personalities, and impacts
- **Peasants and Tribal Movements**
  - Peasants' movements in this period and related personalities
  - Tribal movements in this period and related personalities

## MODERN HISTORY-3

## SESSION: 41

29 FEBRUARY,  
2024

□ **Revolutionary Nationalism**

- The Extremist (1905-1920)
- Differences between the Moderates and the Extremists

□ **Indian National Movement – I (1905-1918)**

- Partition of Bengal (1905)
- Swadeshi Movement
- Muslim League, 1906
- Surat Session of INC, 1907
- Indian Council Act (Morley- Minto Act) 1909
- Ghadar Party, 1913
- Komagata Maru Incident 1914
- The Lucknow Pact (1916)
- Home Rule Movement (1915–1916)
- August Declaration, 1917

□ **Indian National Movement –II (1918-1929)**

- World War I-Reforms and Agitation
- Champaran Satyagraha (1917)
- Ahmadabad Mill Strike (1918)
- Kheda Satyagraha (1918)

- The Government of India Act, 1919
- The Non-Cooperation Movement (1920-22)
- Bardoli Resolution
- Nagpur Session of Congress
- Swaraj Party and its Evaluation
- Muddiman Committee (1924)
- Rowlatt Act and Jallianwala Bagh Massacre (1919)
- Khilafat Movement
- Simon Commission (1927)
- Bardoli Satyagraha (1928)
- Nehru Report (1928)
- Jinnah's Fourteen Points
- Lahore Session, 1929

□ **Indian National Movement –III (1929-1947)**

- Round-Table Conference, 1930
- Gandhi-Irwin Pact, 1931
- Karachi session of 1931
- Second Round Table Conference, 1931
- Civil Disobedience Movement (Second-Phase)
- Third Round Table Conference (17 November 1932)

- Communal Award
  - Poona Pact, 1932
  - Government of India Act, 1935
  - World War II and Indian Nationalism
  - Resignation of Congress Ministers (1939)
  - Poona Resolution and Conditional Support to Britain (1941)
  - August Offer of 1940
  - The Individual Civil Disobedience
  - Two-Nation Theory
  - Cripps Mission (1942)
  - Demand for Pakistan (1942)
  - Quit India Movement
  - Azad Hind Fauj
  - Indian National Army
  - I.N.A. Trials
  - I.N. Rebellion
  - Rajagopalachari Formula, 1945
  - Desai - Liaquat Pact
  - Cabinet Mission (1946)
  - Wavell Plan
  - Jinnah's Direct Action Resolution
  - Mountbatten Plan of June 1947
  - Indian Independence Act 1947
- **Governor Generals During British India**

**SESSION: 42****01 MARCH, 2024****CLASS CONTINUE****03 MARCH, 2024****HISTORY & CULTURE REVISION TEST**

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# ECONOMY

## BASIC CONCEPTS & ECONOMIC MEASUREMENTS

**SESSION: 43**

**04 MARCH, 2024**

- **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
- **Macro economy**
  - Aggregate Demand and Aggregate Supply
  - Concepts of National Income
- Calculation of National Income
- Purchasing Power Parity on GDP
- Nominal and 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
- **National Income Accounting of India**
  - Latest India's National Income Estimates
  - Calculation of National Income in India

## MONEY & BANKING

**SESSION: 44**

**05 MARCH, 2024**

- **Money**
  - Money: Definition, Types and Functions
  - Demand Supply of Money
  - Indian currency system
  - Broad and Narrow Money
  - Money multiplier
  - Digital Money
- New Monetary Aggregates
- Policy Tools to Control Money Supply
- Liquidity and Inflation
- **Banking**
  - Development of Banking System in India

	<ul style="list-style-type: none"> <li>◦ Types of bank in India</li> <li>◦ RBI Act</li> <li>◦ RBI and its functions</li> <li>◦ Banking Regulation act</li> <li>◦ Banking nationalization</li> <li>◦ Basel norms</li> <li>◦ Non-banking financial institutions</li> <li>◦ Digital money, digital payment system</li> <li>◦ Crypto currency, Block chain Technology, etc.</li> <li>◦ Central bank digital currency</li> <li>◦ Steps for banking reforms</li> <li>◦ Insolvency and bankruptcy</li> </ul> <p>□ <b>Monetary Policy</b></p> <ul style="list-style-type: none"> <li>◦ Evolution of Monetary policy in India</li> <li>◦ Role of RBI in monetary policy</li> <li>◦ Instruments of Monetary Policy and their impacts</li> </ul>	<ul style="list-style-type: none"> <li>◦ Key Interest Rates Policy Rates and Reserve Ratios</li> <li>◦ Role of RBI in debt management</li> <li>◦ Monetary Policy Committee and Inflation Targeting</li> </ul> <p>□ <b>Money and Financial Sectors</b></p> <ul style="list-style-type: none"> <li>◦ Concept and functions of financial markets</li> <li>◦ Instruments of money market</li> <li>◦ Types of capital market</li> <li>◦ Distinguish between capital market and money market</li> <li>◦ Insurance Industry - Insurance Industry and Reforms</li> <li>◦ Role of regulators viz. SEBI, IRDA, etc.</li> <li>◦ Types and Examples of Bond and securities</li> <li>◦ Stock Exchanges of India</li> </ul>
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<p><b>SESSION: 45</b> 06 MARCH, 2024</p>	<p><b>CLASS CONTINUE</b></p>
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<p><b>SESSION: 46</b> 07 MARCH, 2024</p>	<p><b>PLANNING + PUBLIC FINANCE IN INDIA</b></p>
	<p>□ <b>Public Finance and Budgeting</b></p> <ul style="list-style-type: none"> <li>◦ Budget: Definition, Types, Terminologies, Process, etc.</li> <li>◦ Gender budgeting, Green budgeting, Zero-based budgeting, etc.</li> <li>◦ Receipts and expenditure</li> <li>◦ Deficits: Fiscal, Revenue, Effective Revenue, Primary, Monetized, etc.</li> </ul>

- **Deficit Financing**
- **FRBM Act and amendments**
- **Fiscal Policy**
  - Taxation System in India: Classification, tax rate, effects
  - Various other dimension of Taxation: methods (Progressive, Regressive, proportional, etc.)
  - Fiscal reforms, Fiscal drag
  - Fiscal consolidation
  - Direct Tax code, problems in implementation
  - GST and various dimensions
  - National Anti-Profitteering Authority
  - Subsidies: Dimensions and Rationalization
  - Financial Stability and Development Council (FSDC)
  - Financial Stability Report
  - Public Debt Management Cell
  - Base Erosion and Profit Shifting
  - Global Minimum Corporate Tax
  - Tax Buoyancy, Tax Avoidance, GAAR
  - Financial Data Management Centre
  - Public Financial Management System
- Recent trends in Fiscal policy
- **Poverty**
  - Concept and dimensions of Poverty
  - Measurement and Methodologies to estimate Poverty in India
  - Poverty Line
  - Types and Causes of Poverty
  - Hunger, Malnutrition, Stunting, etc.
  - Multidimensional Poverty in India
- **Unemployment**
  - Unemployment: Definition and Types
  - Causes of unemployment in India
  - Measurement of Unemployment in India
  - Unemployment Trends in India
- **Planning and Inclusive Growth**
  - Planning History, Key Five Year Plans, etc.
  - NITI Aayog (Planning aspects)
  - Inclusive Growth: Meaning and Various dimensions
  - Social Sectors and social Infrastructure: Health, Education, and Standard of living



	<ul style="list-style-type: none"> <li>◦ Water, Sanitation and Hygiene (WASH)</li> <li>◦ Poverty Alleviation Programs in India</li> <li>◦ Employment Generation Programs in India</li> </ul>	<ul style="list-style-type: none"> <li>◦ Human Resource Development, Gender Neutrality, and various other aspects, etc.</li> <li>◦ Key Reports and Indices</li> </ul>
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## SECTORS OF INDIAN ECONOMY

<p><b>SESSION: 47</b></p> <hr style="width: 80%; margin: auto;"/> <p><b>08 MARCH, 2024</b></p>	<ul style="list-style-type: none"> <li>◦ Agricultural Inputs: Seeds, Credit structure, Irrigation, etc.</li> <li>◦ Minimum Support Price</li> <li>◦ Agricultural Subsidies</li> <li>◦ Crop Insurance in India</li> <li>◦ Agriculture land reforms</li> <li>◦ Agricultural Outputs: Infrastructure, Marketing reforms, Harvesting, etc</li> <li>◦ Agriculture Price Policy (APP) in India</li> <li>◦ Agri-Market Infrastructure Fund</li> <li>◦ Agriculture Extension</li> <li>◦ FCI, NABARD, etc.</li> <li>◦ Food security in India, Public Distribution System</li> <li>◦ Food processing, Mega Food Park, other dimensions</li> </ul>		<ul style="list-style-type: none"> <li>◦ National Mission on Government e-Market (GeM) portal</li> <li>◦ PLI scheme</li> <li>◦ Steps for industrial promotion</li> <li>◦ Recent steps for Infrastructure push</li> <li>◦ National IPR policy</li> <li>◦ National Manufacturing policy</li> <li>◦ Industrial policy</li> <li>◦ National Design policy</li> <li>◦ National Automotive Policy</li> <li>◦ Logistics sector, Portal</li> <li>◦ Dedicated Freight Corridors</li> <li>◦ Special Economic Zone (SEZ)</li> <li>◦ Energy infrastructure</li> <li>◦ National E-Mobility Programme</li> <li>◦ National Investment and Infrastructure Fund</li> <li>◦ Modified Industrial Infrastructure Upgradation Scheme</li> </ul>
	<ul style="list-style-type: none"> <li>◦ <b>Agriculture</b></li> </ul>		
	<ul style="list-style-type: none"> <li>◦ <b>Industry and Infrastructure</b></li> </ul>		

	<ul style="list-style-type: none"> <li>□ <b>Services</b> <ul style="list-style-type: none"> <li>◦ Size and Structure of the Service sector</li> <li>◦ Champion Services Sectors: Education, Tourism &amp; Hospitality, Information Technology</li> </ul> </li> </ul>	<p>and ITES, Transport and Logistics, Financial, Medical, etc.</p> <ul style="list-style-type: none"> <li>◦ Trade in Services Sector</li> <li>◦ IPR issues in India, recent trends</li> </ul>
<p><b>SESSION: 48</b> <b>09 MARCH, 2024</b></p>	<p><b>CLASS CONTINUE</b></p>	
<p><b>SESSION: 49</b> <b>11 MARCH, 2024</b></p>	<ul style="list-style-type: none"> <li>□ <b>External sectors</b> <ul style="list-style-type: none"> <li>◦ Balance of Payments and Foreign Capital</li> <li>◦ Trade structure, Balance of Trade</li> <li>◦ Exchange rate regimes: types, features</li> <li>◦ India's Exchange rate system</li> <li>◦ Depreciation, Appreciation, Devaluation, Revaluation</li> <li>◦ Current Account Convertibility and Capital Account Convertibility</li> <li>◦ NEER and REER</li> <li>◦ Forex Reserves, External Debt</li> <li>◦ Impact of Globalization on Indian Economy</li> <li>◦ International Organizations: IMF, WTO, World Bank Group, ADB, AIIB, NDB, WEF, etc.</li> <li>◦ International Groupings: G20, BRICS, SCO, G7, ASEAN etc.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>◦ Types of trade agreements (PTA, FTA, CEPA, CECA etc.)</li> <li>◦ WTO: Trips, Trims, India and WTO</li> <li>◦ Foreign Investment Models</li> <li>◦ FDI policy</li> <li>◦ New Foreign Trade Policy</li> <li>◦ Miscellaneous</li> <li>□ <b>Recent Development</b> <ul style="list-style-type: none"> <li>◦ G7 corporate tax</li> <li>◦ National Monetisation Pipeline</li> <li>◦ PM Gati Shakti Master Plan</li> <li>◦ Credit Rating Agencies: Credibility and Accountability</li> <li>◦ Recent trends and measures of banking Reforms</li> <li>◦ Circular Economy</li> <li>◦ Financial Inclusion Index</li> </ul> </li> </ul>

<b>SESSION: 50</b> <b>12 MARCH, 2024</b>	<b>CLASS CONTINUE</b>
<b>17 MARCH, 2024</b>	<b>ECONOMY REVISION TEST</b>

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# ECOLOGY & ENVIRONMENT

## FUNDAMENTALS OF ECOLOGY & ENVIRONMENT

**SESSION: 51**

**18 MARCH, 2024**

- **Origin of Life Forms**
- **Basic Concept of Ecology**
  - Definition and Types of Ecology
  - Habitat & Ecological Niche
  - Ecological Principles
  - Levels of Organisation
  - Population ecology
  - Ecological dominance
  - Community Ecology
- **Environment and Its Factors**
  - Environment and its Components
  - Factors of Environment
  - Responses to Abiotic Factors
  - Adaptations in animals
  - Adaptations in plants
  - Evolutionary changes and natural selection
- **Levels of Ecological Organization**
  - Organisms
  - Population
  - Community
  - Ecosystems
  - Biosphere
- **Ecosystem: Structure and Function**
  - Definitions and terms
  - Components of Ecosystem
  - Productivity and types
  - Decomposition and related terms
  - Energy Flow
  - Food Chain, types
  - Food web
  - Various types of Ecological Pyramid
  - Pollutants and Tropical Level
  - Population Interactions
  - Nutrient Cycle
  - Bio-Geochemical Cycle
  - Ecological Succession: Definition and terms
  - Ecological Succession: types and Process
  - Ecosystem Services
  - Ecotones
  - Threats to Ecosystems
  - Rebounding Ecosystems
  - Biome
- **Terrestrial Ecosystem**
  - Latitude vs altitude variation
  - Tundra
  - Taiga

	<ul style="list-style-type: none"> <li>◦ Grassland</li> <li>◦ Tropical Forest</li> <li>◦ Indian Forest Types</li> <li>◦ Latest ISFR</li> <li>◦ Desertification and control</li> <li>◦ Desert Ecosystem</li> <li>◻ <b>Aquatic Ecosystem</b> <ul style="list-style-type: none"> <li>◦ Ocean and Lake Ecology</li> <li>◦ Eutrophication, Algal bloom</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>◦ Wetlands ecosystem</li> <li>◦ Wetland Conservation Programme, Montreux Record</li> <li>◦ Ramsar sites</li> <li>◦ Estuary</li> <li>◦ Mangrove</li> <li>◦ Coral reefs: structure and function</li> <li>◦ Coral reefs: Threats and conservation</li> </ul>
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<p><b>SESSION: 52</b></p> <p><b>19 MARCH, 2024</b></p>	<p><b>CLASS CONTINUE</b></p>
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<b>BIODIVERSITY</b>
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<p><b>SESSION: 53</b></p> <p><b>20 MARCH, 2024</b></p>	<ul style="list-style-type: none"> <li>◻ <b>Biodiversity: Concept</b> <ul style="list-style-type: none"> <li>◦ Concept and definition</li> <li>◦ Levels of Biodiversity</li> <li>◦ Patterns and Distribution of Biodiversity</li> <li>◦ The importance of Species and Genetic Diversity to the Ecosystem</li> <li>◦ Factors that enhance biodiversity</li> <li>◦ Types of Diversity</li> <li>◦ Endemism: concept</li> <li>◦ Threats to Biodiversity</li> <li>◦ Causes of biodiversity losses</li> <li>◦ Extinction of species, Mass extinction</li> <li>◦ Biopiracy</li> <li>◦ Invasive species</li> <li>◦ Indicator species</li> <li>◦ Keystone species</li> </ul> </li> <li>◦ Speciation</li> <li>◦ Evolution</li> <li>◻ <b>Conservation Methods and Strategies</b> <ul style="list-style-type: none"> <li>◦ Utilitarian aspects for conserving biodiversity</li> <li>◦ Methods to conserve Biodiversity</li> <li>◦ Ex situ vs. In situ</li> <li>◦ Biosphere</li> <li>◦ Wildlife Sanctuaries</li> <li>◦ National Parks</li> </ul> </li> <li>◻ <b>Biodiversity of India and the World</b> <ul style="list-style-type: none"> <li>◦ Patterns and Distribution of Biodiversity in India</li> <li>◦ Invasive species in India</li> <li>◦ IUCN's Red and Green Status of Species</li> </ul> </li> </ul>
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- Critically Endangered Species of India and the World
  - Biodiversity Hotspots
  - Biodiversity Coldspots
  - Floral endemism
  - Global Eco-regions
  - Miscellaneous
  - National park
  - Tiger reserves and Project tiger
  - Projects for Other species
  - Species Recovery Programs
  - Sacred groves of India
  - Community reserves and Conservation Reserves of India
  - UNESCO MAB
  - International Efforts and convergence of the protection of Various Species
- **Biodiversity Conservation Efforts**
- Protected areas of India
  - Biosphere Reserves
  - Wildlife sanctuaries

**SESSION: 54**

21 MARCH, 2024

**CLASS CONTINUE**

**ENVIRONMENTAL POLLUTION & MANAGEMENT**

- **Environmental Pollution and Management**
- **Pollutant basics, classification, etc.**
  - **Air Pollution**
    - ▶ Sources of Air Pollution
    - ▶ Effects of Air Pollution
    - ▶ Classification of Air Pollutant
    - ▶ New techniques of controlling Air Pollution
    - ▶ Air Pollution Disasters
  - **Water Pollution**
    - ▶ Sources of Water Pollution
    - ▶ Effects of Water Pollution
  - ▶ Water Quality Standards: BOD and COD
  - ▶ Algal bloom, Eutrophication
  - ▶ Control of Water Pollution (new techniques)
  - ▶ Noise Pollution
  - ▶ Thermal Pollution
  - ▶ Soil Pollution or Land Degradation
  - ▶ Solid Waste: Source and Management
  - ▶ Hazardous Waste Management
  - ▶ e-Waste, nuclear waste

**SESSION: 55**

22 MARCH, 2024

	<ul style="list-style-type: none"> <li>▶ Bio Medical Waste</li> <li>▶ Plastic Waste, Plastic Pollution, Micro plastics</li> <li>▶ Deforestation: Causes and Prevention</li> <li>▶ Consequences of Deforestation on the Biodiversity and Climate Change</li> </ul>	<ul style="list-style-type: none"> <li>▶ Coral Reefs: Threats, Prevention, etc.</li> <li>▶ Bio-Remediation: Types and Methods</li> <li>▶ Effect of Agriculture on Environment</li> <li>▶ Effect of Environment on Agriculture</li> </ul>
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<b>SESSION: 56</b> <b>23 MARCH, 2024</b>	<b>CLASS CONTINUE</b>
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	<b>CLIMATE CHANGE &amp; MITIGATION</b>	
<b>SESSION: 57</b> <b>25 MARCH, 2024</b>	<ul style="list-style-type: none"> <li>□ <b>Climate Change and Mitigation</b> <ul style="list-style-type: none"> <li>○ Climate Change and Global Warming</li> <li>○ Greenhouse effect</li> <li>○ GHG emissions</li> <li>○ Factors affecting GHG emissions</li> <li>○ Global Warming Potential</li> <li>○ Good ozone vs bad ozone</li> <li>○ Ozone Depletion: factors</li> <li>○ Recovery of Ozone Layer</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>○ Methane emission</li> <li>○ Sea Level Rise and its Impact</li> <li>○ Water Stress and Water Insecurity</li> <li>○ Urban Heat Island</li> <li>○ Carbon Sequestration, Carbon Sink</li> <li>○ Geo-Engineering</li> <li>○ Ocean Acidification</li> <li>○ Effects of Climate Change: Multidimensional</li> </ul>

	<b>ENVIRONMENTAL GOVERNANCE</b>	
<b>SESSION: 58</b> <b>26 MARCH, 2024</b>	<ul style="list-style-type: none"> <li>□ <b>Environmental Governance (National)</b> <ul style="list-style-type: none"> <li>○ Forest Conservation Act, 1980</li> <li>○ Wildlife Protection Act, 1972 and Amendment</li> <li>○ Environment (Protection) Act, 1986</li> <li>○ National Action</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Programme to Combat Desertification</li> <li>○ Wildlife Crime Control Bureau</li> <li>○ Project Tiger / National Tiger Conservation Authority</li> </ul>



- Biological Diversity Act 2002
- Green Skill Development Programme
- National Mission for Enhanced Energy Efficiency
- National Green Tribunal
- Forest Survey of India and Forest Reports
- National Board for Wildlife
- Pollution Control Boards
- Various Organizations
- Various Projects
- Government Programmes for Conservation of Forests
- Government initiatives for pollution control
- Organizations for pollution control
- **Environmental Governance (International)**
  - International Conventions for Ozone recovery, Protocols and Amendments
  - International Conventions for desertification
  - International Efforts for Environmental Protection: UNFCCC, COP,
  - Convention on Biological Diversity and Protocols
  - International Union for Conservation of Nature and its Functions
- Intergovernmental Panel on Climate Change, IPCC Special Report on Climate Change
- World Conservation Congress
- World Wide Fund for Nature
- Other Important International Environmental Organizations
- Climate finance and Funds, Carbon Credit, Carbon Tax, etc.
- Various Conventions for Pollutants and their trans-boundary movement
- Convention on International Trade in Endangered Species of Wild Fauna and Flora
- Convention on Migratory Species
- UN REDD and REDD+
- Coral Reefs: International efforts for restoration
- International efforts for the management of Plastic Waste
- Miscellaneous
- **Environmental Impact Assessment**
  - Environmental Impact Assessment: Meaning and Objectives

	<p>□ <b>Recent Developments</b></p> <ul style="list-style-type: none"><li>○ Precision farming</li><li>○ Conservation of the world's sea grasses</li><li>○ Link between climate change and wildfires</li><li>○ Black carbon deposits on Himalayan glaciers</li><li>○ Carbon Tax and Feasibility in India</li><li>○ Polluters Pay Principle</li><li>○ Human-Wildlife Conflict and its impact</li><li>○ Circular Bioeconomy</li><li>○ Carbon Capture, Utilisation &amp; Storage (CCUS)</li><li>○ Ancient Bawadis and Water Management</li><li>○ Interconnected Disasters Risk</li></ul>
<b>SESSION: 59</b> <hr/> <b>27 MARCH, 2024</b>	<b>CLASS CONTINUE</b>
<b>31 MARCH, 2024</b>	<b>ENVIRONMENT REVISION TEST</b>

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# SESSION PLAN

## CURRENT AFFAIRS

SESSION	SUBJECT	TYPE
SESSION: 60	Ecology & Environment	Class
SESSION: 61	Ecology & Environment	Class & Test
SESSION: 62	Ecology & Environment	Class & Test
SESSION: 63	Polity	Class
SESSION: 64	Polity	Class & Test
SESSION: 65	Polity	Class & Test
SESSION: 66	International Relations	Class
SESSION: 67	International Relations	Class & Test
SESSION: 68	Indian Culture	Class & Test
SESSION: 69	Geography	Class
SESSION: 70	Geography	Class & Test
SESSION: 71	Geography	Class & Test
SESSION: 72	Governance	Class
SESSION: 73	Governance	Class & Test
SESSION: 74	Science & Technology	Class
SESSION: 75	Science & Technology	Class & Test
SESSION: 76	Science & Technology	Class & Test
SESSION: 77	Indian Economy	Class
SESSION: 78	Indian Economy	Class & Test
SESSION: 79	Indian Economy	Class & Test
SESSION: 80	Economic Survey & Budget	Class & Test
SESSION: 81	India Year Book	Class
SESSION: 82	India Year Book	Class & Test

## SESSION PLAN

# CSAT CLASSES & TESTS

SESSION	SUBJECT	TYPE
SESSION: 83	Time & Work	Class & Test
SESSION: 84	GENERAL MENTAL ABILITY-1	Class & Test
SESSION: 85	Number System	Class & Test
SESSION: 86	Time & Work	Class & Test
SESSION: 87	GENERAL MENTAL ABILITY-2	Class & Test
SESSION: 88	Number System	Class & Test
SESSION: 89	Basic geometry and trigonometry, Data sufficiency	Class & Test
SESSION: 90	Probability	Class & Test
SESSION: 91	Permutation & Combination	Class & Test
SESSION: 92	Syllogisms	Class & Test
SESSION: 93	Reading Comprehension: 01	Class & Test
SESSION: 94	Reading Comprehension: 02	Class & Test

## SESSION PLAN

# SECTIONAL TESTS

TEST NO.	TOPICS
SECTIONAL TEST: 01	Polity & Governance
SECTIONAL TEST: 02	Economy
SECTIONAL TEST: 03	Environment
SECTIONAL TEST: 04	History & Culture of India
SECTIONAL TEST: 05	Geography
SECTIONAL TEST: 06	Science & Technology

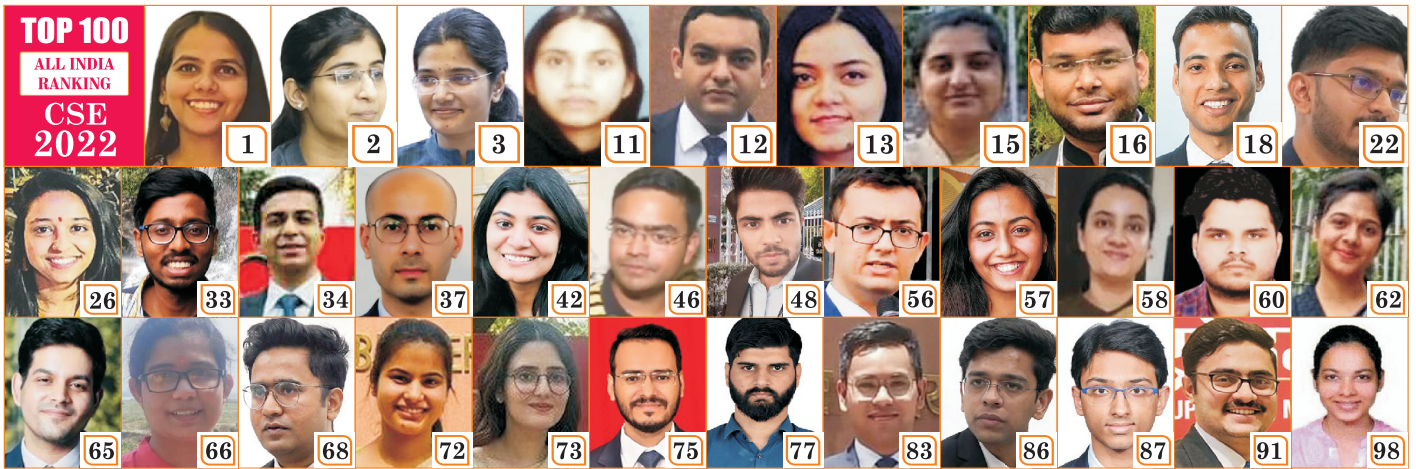
# SESSION PLAN

# FULL MOCK TESTS

TEST NO	TOPICS	TEST NO	TOPICS
Mock 1	Paper 1: General Studies	Mock 11	Paper 1: General Studies
Mock 2	Paper 2: CSAT	Mock 12	Paper 2: CSAT
Mock 3	Paper 1: General Studies	Mock 13	Paper 1: General Studies
Mock 4	Paper 2: CSAT	Mock 14	Paper 2: CSAT
Mock 5	Paper 1: General Studies	Mock 15	Paper 1: General Studies
Mock 6	Paper 2: CSAT	Mock 16	Paper 2: CSAT
Mock 7	Paper 1: General Studies	Mock 17	Paper 1: General Studies
Mock 8	Paper 2: CSAT	Mock 18	Paper 2: CSAT
Mock 9	Paper 1: General Studies	Mock 19	Paper 1: General Studies
Mock 10	Paper 2: CSAT	Mock 20	Paper 2: CSAT

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## SUCCESS IS A PRACTICE WE DO!

