

# Most Exhaustive Topic List For UPSC Prelims 2024

(From Sleepy Classes' Rapid Revision Course)

## Environment & D.M.

### Ecology

1. Ecology
2. Types of Ecology
3. External and Internal Environment
4. Levels of Organisation of Ecology
5. Individuals
6. Species
7. Ecophene, Ecotype and Ecospecies
8. Extinction
9. Population
10. Community

### Ecosystem

1. Ecosystem and its types
2. Ecotope
3. Biomes
4. Biosphere
5. Extent of Biosphere
6. Ecosphere
7. Ecotone
8. Edge Effect - Edge Species
9. Ecocline
10. Ecocline Vs Ecotone
11. Niche
12. Types of Niche
13. Ecological Equivalents

## Components of Ecosystem

1. Abiotic Components
2. Limiting Factors
3. Liebig's Law of Minimum
4. Carrying Capacity
5. Photosynthesis Process

## Responses to Abiotic Factors

1. Regulate
2. Conform
3. Migrate - CAF
4. Suspend
5. Adaptations
6. Biotic Components
7. Primary Producers
8. Consumers (Heterotroph)
9. Decomposers - Detritivores and Saprotrophs
10. Decomposition Process - Fragmentation, Leaching, Catabolism, Humification & Mineralisation

## Productivity of Ecosystem

1. Primary Productivity

### Gross and Net Primary Productivity

2. Secondary Productivity
3. Productivity in different Ecosystems

## Functions of Ecosystem

1. Ecological Succession
2. Lichens
3. Succession - Features
4. Types of Succession
5. Primary Vs Secondary Succession
6. Autogenic Vs Allogenic Succession
7. Energy Flow through an Ecosystem
8. Food Chain
9. Types of Food Chain
10. Food Web
11. Ecological Pyramid

12. Types of Ecological Pyramids
13. Pyramid of Numbers
14. Pyramid of Biomass
15. Pyramid of Energy
16. Limitations of Ecological Pyramid
17. Pollutants and Trophic Levels

### **Bioaccumulation and Bioconcentration**

1. Biomagnification

### **Biotic Interactions**

1. Biotic Interactions
2. Predation
3. Competition
  - a. Competitive Release
  - b. Gause's Competitive exclusion principle
4. Resource Partitioning
5. Parasitism
6. Ectoparasites  
& Endoparasites
7. Brood Parasitism
8. Commensalism
9. Mutualism
10. Amensalism
11. Allelopathy

### **Nutrient Cycling**

1. Nutrient Cycling
2. Phosphorous Cycle
3. Nitrogen Cycle
4. Nitrogen Fixation
5. Nitrogenase
6. Nitrogen Fixers
7. Nitrification - Ammonia to Nitrates
8. Ammonification
9. Denitrification

## **Terrestrial Ecosystems**

### **Tropical Forests**

1. Tropical Rain Forests
2. Tropical Rain Forests - Features
3. Tropical Rain Forests - Stratification
4. Sunlight is Limiting
5. Epiphytes and Hemiepiphytes
6. Slash and Burn Agriculture
7. Tropical Rain Forests - Huge Diversity
8. Tropical Rain Forests - Found in

### **Tropical Deciduous Forests**

1. Tropical Deciduous Forests - Features
2. Tropical Deciduous Forests - India

### **Cloud Forests**

#### **Grasslands**

1. Tropical Grasslands - Features
2. Tropical Grasslands - Examples

#### **Temperate Grasslands**

1. Temperate Grasslands - Features
2. Temperate Grasslands - Examples

#### **Mediterranean Biome**

1. Mediterranean Biome - Features
2. Mediterranean Biome - Found In

#### **Taiga**

1. Taiga - Features
2. Taiga - Permafrost
3. Taiga and Tundra

#### **Tundra**

1. Tundra - Features
2. Alpine tundra
3. Arctic Tundra

## Deserts

### 1. Causes

## Deserts - Examples

### Terrestrial Ecosystem - Current Affairs

1. Banni grasslands of Gujarat
2. Tiger Orchids
3. International Days of Forests 2023
4. State of the World's Forests Reports 2022
5. Global Forest Resource Assessment 2020
6. India State of Forest Report 2021
7. Forest Cover
8. Recorded Forest Area
9. Recorded Forest Area v/s Forest Cover
10. Tree Cover and Tree Outside Forest
11. Findings of ISFR 2021
12. Miyawaki Method
13. Nagar Van Scheme
14. Vanikaran Project
15. Senna spectabilis
16. Mission Lantana
17. Lantana Camara
18. Tree Outside Forest India Initiative
19. Compensatory Afforestation
20. CAMPA
21. Net Present Value (NPV)
22. Different Types of Forests
23. Bamboo
24. Gregarious Flowering
25. Deemed Forest
26. Forest Conservation Act, 1980
27. The Forest Rights Act (FRA), 2006
28. Forest Conservation Act, 1980

29. Forest Conservation Rules (FCR) (2022)
30. Soil Carbon in Grasslands
31. Forest Certification
32. United Nations Forum on Forests (UNFF18)
33. United Nations Forum on Forests
34. Saltpan workers debarred from entering Little Rann of Kutch
35. Wild Ass Sanctuary
36. Indian wild ass

## AQUATIC ECOSYSTEMS

1. Components
2. Noctiluca Scintillans
3. Types Of Aquatic Ecosystems
4. Aquatic Organisms
5. Factors Limiting The Productivity Of Aquatic Ecosystems
6. Factors Limiting The Productivity Of Aquatic Habitats
7. Dissolved Oxygen
8. Lake Ecology
9. Eutrophication
10. Mechanism Of Eutrophication
11. Cultural Eutrophication

## MANGROVES

1. Introduction
2. Where Are Mangroves Found?
3. Mangroves Adaptations
4. Leaves Adaptation
5. Root Adaptations
6. Stilt Roots
7. Reproductive Adaptations
8. Distribution Of Mangroves In India
9. Mangroves In India
10. Blue Carbon
11. Types of Carbon - Captured

12. Types of Carbon - Released
13. Spot - Billed Pelican
14. Threats To Mangroves
15. Mangroves Conservation
16. The Mangrove Alliance for Climate
17. MISHTI Scheme
18. SAIME
19. International Day for the Conservation of the Mangrove Ecosystem
20. Sunderbans NP
21. Bhitarkanika NP
22. Olive Ridley Turtle

## **CORAL REEFS**

1. Introduction
2. ZOOXANTHELLAE
3. Types of Corals
4. Hard Corals And Soft Corals
5. CORAL REEFS - FEATURES
6. Conditions Required For Coral Reef Formation

## **TYPES OF CORALS**

7. Types Of Coral Reef Formations
8. Corals In India
9. Coral Bleaching
10. Coral Bleaching - Causes
11. Dead Coral Reef
12. Cold Water Corals

## **THREATS TO CORALS**

1. Corals Conservation
2. Global Fund For Coral Reefs
3. Cryomesh
4. International Coral Reef Initiative (Icri)
5. Coral Reef Breakthrough
6. Global Fund For Coral Reefs

7. Global Coral Reef Monitoring Network
8. Coral Triangle
9. Sponge Bleaching

## **KELPS**

1. Carrageenans

## **WETLANDS**

1. Introduction
2. Characteristics
3. Types
4. Mitigation Mechanism
5. Cop
6. Ramsar Sites
7. Ramsar Sites In India
8. Montreux Record
9. Keoladeo NP
10. Keibul Lamjao NP
11. Chilika Lake
12. Irrawaddy Dolphin
13. Wetlands In India
14. National Wetland Decadal Change Atlas
15. Wetlands International
16. National Wetlands Conservation Programme
17. Wetland (Conservation And Management) Rules 2017
18. Wise Use

## **AIR POLLUTION**

1. Types Of Pollutants
2. Photochemical Smog
3. Thermal Power Plants
4. Carbon Monoxide
5. Carbon Dioxide
6. Sulphur Dioxide
7. Flu Gas Desulfurization Technology



8. **Extension of Sulfur Dioxide Emission Norms**
9. **Sulphate Aerosols**
10. **Nitrogen Oxide**
11. **BLACK CARBON or SLCPs**
12. **Particulate Matter**
13. **Short-lived Climate Pollutants (SLCPs)**
14. **Volatile Organic Compounds**
15. **Benzene**
16. **Biomass Co-firing**
17. **Agro Residues as Biomass Pellets**

## **DELHI POLLUTION**

1. **Introduction**
2. **Causes**
3. **Control Measures**
4. **Graded Response Action Plan**
5. **Commission For Air Quality Management**

## **STUBBLE BURNING**

1. **Introduction**
2. **Causes**
3. **Indian Case**
4. **Measures To Control**
5. **Crop Residue Management Machines**
6. **National Clean Air Programme**
7. **131 Non-Attainment Cities**
8. **Swachh Vayu Sarvekshan**
9. **Swachh Vayu Diwas**

## **MONITORING OF AIR POLLUTION**

1. **National Air Quality Monitoring Programme**
2. **National Ambient Air Quality Standards**
3. **National Air Quality Index (AQI)**
4. **World Health Organisation Air Pollution Standards**
5. **Polluting Industries**

6. **Categorization Of Polluting Industries**
7. **Polluting Industries**
8. **SAMAR**
9. **SAFAR**
10. **SAMEER APP**

## **NCAP**

1. **National Clean Air Programme**
2. **131 Non-Attainment Cities**
3. **Swachh Vayu Sarvekshan**
4. **Swachh Vayu Diwas**

## **BHARAT STAGE NORMS**

1. **CAFE NORMS**

## **PET COKE**

## **LEADED PETROL**

## **FLY ASH**

1. **ASH PARK**
2. **ASH TRACK APP**
3. **Fly Ash Utilisation Policy 2021**
4. **Fly Ash Management and Utilisation Mission**
5. **Bharat Stage TREM IV**
6. **Steel Slag**
7. **Copper Smelting**
8. **NARFI**
9. **Green Crackers**
10. **Advantages**
11. **Toxic Metals in Traditional Crackers**
12. **Types**
13. **Concerns**
14. **E-crackers**

## **WATER POLLUTION**

1. DO
2. BOD
3. COD
4. **Underground Water Pollution**
5. **ARSENIC Pollution**
6. **Mercury Contamination**
7. **Lead Contamination**
8. **FLUOROSIS**
9. **Cadmium Poisoning**
10. **Nitrate Poisoning**

## **Water Pollution Control**

1. **Ganga Action Plan**
2. **National River Ganga Basin Authority**
3. **National Mission for Clean Ganga**
4. **Namami Gange**
5. **National Ganga Council**
6. **Clean Ganga Fund**
7. **Ganga Vriksharopan Abhiyan**
8. **How Clean Is Ganga? Now, A Mobile Application to Monitor Holy River's Water And Aquatic Life**
9. **E-flow Norms For River Ganga**
10. **Central Water Commission**
11. **River-Cities Alliance (RCA)**
12. **Namami Ganga**
13. **Uranium Contamination**
14. **SWASTIIK**
15. **Viologen-unit Grafted Organic-framework (iVOFm)**
16. **Atal Bhujal Yojana**
17. **Zero Liquid Discharge**
18. **'Water Plus' City**
19. **Arth Ganga**

20. District Ganga Committees
21. JALDOOT App
22. Bharat Tap
23. Swachh Sujal Pradesh
24. Har Ghar Jal
25. U.N. Water Conference 2023
26. World Water Week
27. REWARD Scheme
28. Sponge Cities
29. Water Sensitive Cities
30. Puneet Sagar Abhiyan
31. Water Credits

## **NITROGEN POLLUTION**

1. Nitrogen Pollution
2. South Asian Nitrogen Hub
3. Gothenburg Protocol
4. Other Measures

## **Noise Pollution**

1. Noise Pollution
2. Impact of noise Pollution
3. Sound wave
4. Noise, Blazes and Mismatches- Annual Frontiers Report 2022 (UNEP)
5. Control at receiver's end
6. Control at source level

## **Noise Pollution control**

1. Acoustic zoning
2. Sound insulation - construction site
3. Strict govt action
4. Planting trees
5. Underwater Noise Emissions

## **BIOREMEDIATION**

1. **IN SITU BIOREMEDIATION**
2. **Ex SITU BIOREMEDIATION**

## **Light Pollution**

1. **Changthang Wildlife Sanctuary**
2. **BORTLE SCALE**
3. **Light Pollution - Issues**
4. **LIGHT POLLUTION - WAY FORWARD**
5. **Pench Tiger Reserve**

## **Waste Management**

1. **Solid Waste Management Rules, 2016**
2. **Buffer Zones**
3. **Sustainable Processing of Municipal Solid Waste**
4. **Syngas**
5. **Construction And Demolition (C&D) Waste Management In India**
6. **Construction And Demolition (C&D) Waste Management Rules, 2016**

## **PLASTIC WASTE MANAGEMENT**

1. **Microplastics**
2. **Plastic Waste Management Rules, 2016**
3. **Plastic Waste Management Rules 2022**
4. **Plastic Free Zones**
5. **Bioplastics**
6. **Bioplastics**
7. **Clean Seas Campaign**
8. **Ocean Cleanup**
9. **Alliance to end Plastic Waste**
10. **National Dashboard on Elimination of Single Use Plastic and Plastic Waste Management**
11. **Project REPLAN**
12. **India Plastics Pact**
13. **Biotransformation Technology**
14. **Plastic Rocks**
15. **Plastic Overshoot Day 2023**

16. **GloLitter Partnerships Project**
17. **INC**
18. **INC3**

## **E Waste Management**

1. **Electronics Waste**
2. **E-waste (Management) Rules, 2016**
3. **E-waste (Management) Amendment Rules, 2018**
4. **Two Standard Chargers**
5. **E-waste (Management) Rules, 2022**
6. **Bio-medical Waste Management**

## **Radioactive Pollution**

1. **Radiation**
2. **Conduction**
3. **Convection**
4. **Radiation**
5. **Ionising Vs Non ionising radiation**
6. **Alpha Particle**
7. **Beta Particle**
8. **Source of radiation**
9. **Radioactive Pollution effects**
10. **Radioactive pollution in water: A global concern for human health**
11. **Nuclear fuel cycle**
12. **Management of radiation**
13. **Nuclear waste disposal methods**
14. **India-Nuclear waste management practices**
15. **India-Nuclear waste disposal methods**
16. **National Law for Nuclear Waste Management**
17. **Basel Convention**
18. **Stockholm Convention**
19. **Rotterdam Convention**
20. **Minamata Convention**
21. **Thallium**

## 22. Thallium Poisoning

### HYDROGEN ECONOMY

1. Hydrogen
2. Hydrogen Color Codes
3. Advantages
4. Challenges
5. Applications of hydrogen
6. National Green Hydrogen Mission
7. Levelised Cost of Hydrogen
8. SIGHT
9. Electrolyzers
10. Green Hydrogen

### Biofuels

1. Generations
2. Bioethanol
3. Ethanol Blending
4. 2G Refineries
5. Biodiesel
6. Biogas
7. Syngas
8. Advantages
9. Disadvantages
10. Government Initiatives
11. National Policy of Biofuels
12. National Biofuel Coordination Committee
13. Benefits
14. Bio - Jet Fuel
15. World Biofuel Day
16. Global Biofuel Alliance
17. Importance of GBA
18. Challenges of GBA

## **Methanol Economy**

1. Introduction
2. Methanol
3. Production
4. Adoption of Methanol
5. Niti Aayog - Methanol Economy
6. India's First Methanol-Based Cooking Fuel
7. Other Initiatives
8. Methanol from Coal
9. Green Methanol
10. Biobutanol

## **Energy Efficiency**

1. Introduction
2. National Mission for Enhanced Energy Efficiency
3. National Mission for Enhanced Energy Efficiency - Initiatives
4. EESL
5. UNNATEE
6. National Energy Conservation Day

## **PAT SCHEME**

1. Introduction
2. PAT Cycle I (2012-2015)
3. Achievements of PAT Cycle I
4. Cycle II (2016-17 to 2018-19)
5. PAT cycle -VI (2020-21 to 2022-23)

## **BIOENERGY**

1. Introduction
2. Biogas
3. Compressed Biogas
4. Biogas Plants
5. Flexi Biogas Plants
6. National Bio Energy Programme
7. Scheme For Biomass Based Cogeneration Projects



8. Features
9. Traditional Biomass Cooking
10. GOBAR DHAN
11. 500 New Waste to Wealth Plants
12. Cow dung to Compressed Biogas Project
13. SATAT
14. BioUrja and Biogas Portals
15. Biomass Cofiring
16. Coal Bed Methane
17. Coal Gasification
18. Uses
19. Syngas
20. Shale Gas
21. Ocean Thermal Energy Conversion

### Waste to Energy

1. Introduction
2. Types of Waste
3. Biomethanation
4. Incineration
5. Gasification
6. Pyrolysis
7. Government Policies
8. Advantages
9. Issues

**[Click Here](#) to cover these Environment Topics for Prelims in 16 hours.**

## Economy

1. Tax to GDP ratio, Tax Buoyancy and Laffer curve (More Direct tax Collections)
2. GDP Calculation (Data discrepancy highlighted by few economists)
3. FPIs (SEBI asking for granular details of FPIs holdings)
4. Income Inequality, Gini coefficient Lorenz curve (SBI and Other International Reports)
5. Evergreening of loans (RBI limits banks to invest in AIFs)
6. US debt ceiling
7. Rupee Settlement System
8. RBI's SOPs to Banks for Rupee Settlement
9. Global Bond Index (India's Inclusion)
10. Sovereign Credit Ratings (Low Rating of India despite no default)
11. Most Favoured Nation Principle
12. FOREX and gold reserves
13. Debt Financing (Investors are preferring debt financing than equity because of uncertainty)
14. Angel Tax
15. 2000 withdrawal and Incremental CRR
16. WTO (13th MC, ruled against India in IT hardware Import duties case)
17. Primary Agricultural Credit Societies (repeatedly in News)
18. Digital Lending (Time and again in News and Default loss First Guarantee)
19. IMF (Quota Review)
20. UPI-CBDC
21. Wilful Defaulters (RBI Guideline)
22. IPR regime
23. Foreign Trade Policy 2023 and Export Schemes
24. Market Coupling and New Electricity rules
25. Global Financial Innovation Network (Greenwashing)
26. London Interbank Offered Rate
27. Urban Co-Operative Banks
28. Twin Balance Sheet Problem
29. Liquidity Adjustment Facility
30. Banking System Liquidity
31. Infrastructure Debt Fund-NBFCs

32. Floating Rate Loans Rules
33. Basel-III Capital Framework For AIFIs
34. GSIBs and DSIBs
35. Self-regulatory Organisations (SROS)
36. Payments Infrastructure Development Fund (PIDF) Scheme
37. Special Assistance To States For Capital Investment 2023-24
38. GSTN under the Prevention of Money Laundering Act
39. Vivad Se Vishwas 2.0
40. NPS vs OPS
41. Double Taxation Avoidance Agreement (DTAA)
42. India's Defence Export
43. Export Preparedness Index (EPI)
44. Foreign Contribution Regulation Act (FCRA), 1976 with amendments
45. IMF's International Debt Report 2023
46. SEBI'S Scores Platform
47. New BRSR Core For ESG Disclosures
48. Surety Bonds, Social Bonds and Green Bonds
49. Investor Risk Reduction Access (IRRA)
50. Social Stock Exchange (SSE)
51. India: fourth-largest stock market
52. Global Gender Index 2023
53. Global Competitiveness Index 2023
54. Fitch Downgrades US Rating
55. Re-globalization
56. Global Biofuels Alliance
57. India-middle East-Europe Economic Corridor (IMEE-EC)
58. G20 and India in 2023
59. India-Japan Fund (IJF)
60. Paris Club Group Of Creditors
61. World Economic Situation And Prospects Report
62. Indian Agricultural Trade
63. Pradhan Mantri Matsya Sampada Yojana
64. Rice Fortification
65. 5<sup>th</sup> State Food Safety Index

66. Open Market Sale Scheme
67. Bhoomi Samman Award 2023
68. Agriculture Infrastructure Fund (AIF)
69. Pradhan Mantri Fasal Bima Yojana (New Initiatives)
70. Farm Mechanization
71. Urea Gold
72. Coastal Aquaculture Authority (Amendment) Bill, 2023
73. Nano Dap (Liquid) Plant At Gandhidham
74. Genetically Modified Mustard Crop DMH-11
75. Palm Oil Production
76. Pusa-44 Paddy Variety
77. Minimum Export Price
78. State Of Food And Agriculture Report 2023
79. Pradhan Mantri Garib Kalyan Ann Yojana
80. 'BHARAT' Brand Atta
81. PUSA-2090 Paddy Variety
82. Basic Animal Husbandry Statistics 2023
83. Global Standards On Millets
84. Ban on Export of Agricultural Products
85. Animal Husbandry Infrastructure Development Fund
86. Fertilizer Subsidy
87. FSSAI Food Safety And Standards Regulations
88. MSP and Protests
89. Food Corporation Of India (FCI)
90. IT HARDWARE PLI SCHEME 2.0
91. Factoring and TReDS Platform
92. Bharat 6g Alliance
93. Good Manufacturing Practices (GMP)
94. Self-Reliant India Fund
95. Restrictions On The Import Of Electronic Devices
96. Mines and Minerals (Development and Regulation) Amendment Act, 2023
97. Technical Textiles
98. Skill India Digital
99. Advanced Manufacturing

100. Draft Patents (Amendment) Rules 2023
101. Global Innovation Index 2023
102. 'Leniency Plus' Norms By CCI
103. Japan-India Semiconductor Supply Chain Partnership
104. International Competition Network
105. Special Economic Zones (Fifth Amendment) Rules, 2023
106. MSME's Ramp Scheme
107. PLI Scheme For Automobile & Auto Components
108. PEPSICO's Appeal Over Potato Patent
109. Tea and Jute Industry
110. Startupshala
111. Annual Survey Of Industries (ASI)
112. Waiver of ISTS Charges to Various Green Projects
113. CITIIS 2.0 Program
114. Mission On Advanced And High-Impact Research (MAHIR)
115. Ethanol Blending
116. Time of Day (ToD) Tariff
117. Maharatna, Navratna and Miniratna CPSEs
118. Amrit Bharat Station Scheme
119. Bharat NCAP
120. PPP Models- BOT, HAM, EPC
121. Viability Gap Funding For Development Of Battery Energy Storage Systems
122. Rate Of Royalty For Minerals
123. Taxation Issue On Licence Fee Of Telecoms
124. Adjusted Gross Revenue (AGR) of Telecoms
125. Green Energy Corridor (GEC) Phase-II
126. Regional Rapid Transit System (RRTS)
127. National Coal Index
128. Aaina Portal
129. Delta Rankings Of Aspirational Blocks Programme
130. Logistics Ease Across Different State (LEADS) 2023
131. Electricity (Amendment) Rules, 2024
132. VGF for Coal Gasification
133. Pradhan Mantri Khanij Kshetra Kalyan Yojana

134. Launch Of C-CARES Portal
135. PM Surya Ghar Muft Bijli Yojana
136. NITI Aayog's Report on Agriculture, Financial Inclusion and other sectors
137. Pradhan Mantri Jeevan Jyoti Bima Yojana (PMJJBY)
138. Pradhan Mantri Suraksha Bima Yojana (PMSBY)
139. Atal Pension Yojana (APY)
140. National Multidimensional Poverty Index (MPI)
141. Global Report On The Food Crises (GRFC) 2023
142. PM Vishwakarma
143. 'Lakhpati Didi' scheme
144. Project 'Amber'
145. Pradhan Mantri Ujjwala Yojana (PMUY)
146. Financial Inclusion Index
147. Nobel Prize In Economic Sciences 2023
148. PM Svanidhi Scheme
149. MOU Between Deendayal Antyodaya Yojana And SIDBI
150. Aadhaar-linked Pay For MGNREGS Workers

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## Science & Technology

1. Universe
2. Karman line
3. Black hole Vs White hole
4. Quasar
5. Dark matter Vs Dark Energy
6. Asteroid exploration & their significance
7. Lagrange point & their significance
8. Solar wind
9. Sun spot
10. Solar flares
11. Coronal mass ejection
12. Aurora
13. Meteorite
14. Comet
15. Asteroid belt
16. Kuiper belt
17. Oort cloud
18. Artificial gravity
19. Types of orbit
20. ALV, ASLV, PSLV
21. GSLV
22. SSLV
23. Reusable launch vehicle
24. Next-Gen Launch Vehicle
25. Vikram S ricket
26. Agnibaan SOrTeD rocket
27. RAMJET
28. SCRAMJET
29. Rocket fuel
30. space lasers
31. Plasma waves
32. Kinetic kill technology
33. Artemis Missions
34. James Webb Space Telescope
35. Juice mission

36. Tiangong space station
37. MUSE & HelioSwarm
38. ATLAS
39. Pillars of Creation
40. STEREO Spacecraft
41. Aditya L1
42. Chandrayaan 3
43. Gaganyaan
44. Mangalyaan
45. XpoSat
46. Indian space policy 2023
47. LIGO project
48. NISAR Mission
49. Dark Sky Reserve
50. Atmospheric Waves Experiment
51. Space weather
52. Gravity wave Vs Gravitational waves
53. Communication satellite
54. Earth observation satellite
55. Space debris
56. Ballistic VS Cruise Missiles
57. Integrated Guided Missile Development Programme
58. Mission Divyastra (Agni V)
59. Anti tank missiles
60. Submarine-launched ballistic missiles
61. Warning system
62. INS Vikrant
63. Air independent propulsion system
64. INS Arihant
65. INS chakra
66. SOFAR channel
67. Gene Vs Genome sequencing
68. Recombinant DNA Technology
69. Stem cells
70. Gene editing VS gene therapy
71. Somatic Vs Germline editing

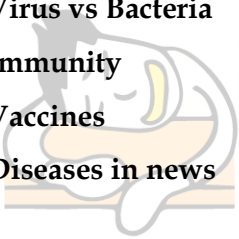


72. Cloning
73. Gene editing techniques
74. SDN 1 Vs SDN 2 Vs SDN 3
75. Gene editing Vs GMO
76. CAR-T cell therapy
77. NeXCAR19
78. Casgevy therapy
79. Gene Silencing
80. 3 parent baby
81. GM Mosquitoes
82. GM crops
83. Gene-edited mustard
84. Golden rice
85. Muktoshti rice
86. Environmental DNA
87. Synthetic biology
88. DNA Tests
89. Bio-computers
90. Genome India Project
91. Age determining test
92. Test tube rhinos
93. Super computers
94. National Supercomputing Mission
95. AIRAWAT
96. Quantum computing
97. Quantum Supremacy
98. Quantum satellite
99. National Quantum Mission (NQM)
100. 3D Printing
101. 4D Printing
102. Optical fiber
103. Bharat Net
104. LASER
105. LIDAR
106. RADAR
107. Incandescent bulb Vs CFL Vs LED

108. microLED displays
109. Quasicrystal
110. Dark patterns
111. Evolution 1G to 5G
112. Frequency Division Multiple Access (FDMA)
113. Time Division Multiple Access (TDMA)
114. Code Division Multiple Access (CDMA)
115. WCDMA
116. LTE
117. VoLTE
118. OFDMA
119. Millimeter wave spectrum
120. GigaMesh
121. Broadband
122. Bluetooth
123. WIFI
124. LIFI
125. Critical information infrastructure
126. Web 5.0
127. New rules for VPN providers
128. RFID (Radio Frequency Identification) Technology
129. One Vehicle One FASTag
130. RFID Vs QR codes
131. Kavach
132. The Indian Telegraph Right of Way (Amendment) Rules, 2022
133. eSIMs
134. International Mobile Equipment Identity (IMEI)
135. How do cookies work?
136. Digital detox initiative
137. Neuralink implant
138. Nuclear energy
139. Fission Vs Fusion
140. Fissile Vs Fertile material
141. Uranium Cycle
142. Uranium enrichment
143. Nuclear reactor
144. Types of nuclear reactor

145. Nuclear waste disposal methods
146. CRITICAL MASS
147. India's Nuclear Power Programme
148. advanced nuclear fuel
149. Fusion energy breakthrough
150. ITER (International Thermonuclear Experimental Reactor)
151. Artificial Sun
152. Nuclear medicine
153. Anti-radiation pills
154. Ionising Vs Non Ionising Radiation
155. Solar photovoltaic cell
156. Solar thermal Parabolic technology
157. Grid connected Vs Off grid
158. Net metering System
159. Solar energy corporation of india
160. Power purchasing agreement
161. Passivated Emitter and Rear Cell technology
162. Perform , achieve , Trade (PAT)
163. Renewable energy certificate
164. Incineration
165. Pyrolysis
166. Torrefaction
167. Gasification
168. Types of Hydrogen
169. HCNG
170. Fuel cell technology
171. Fuel Cell Electric Vehicle
172. Green Hydrogen Fuel Cell Bus
173. Ocean thermal energy conversion plant
174. Patent pooling
175. Compulsory Licensing
176. Evergreening
177. Nanotechnology
178. nano liquid urea
179. Nano DAP
180. Carbon nanotubes

181. Carbon dots
182. Blockchain technology
183. Proof of work Vs Proof of stake
184. Non fungible tokens (NFTs)
185. Worldcoin
186. Drone rules 2021
187. Airspace map of India
188. Cloud computing
189. Virtual reality
190. Augmented reality (AR)
191. Metaverse
192. ChatGPT chatbot
193. Deepfake technology
194. BharOS
195. End to end encryption
196. One health concept
197. Virus vs Bacteria
198. Immunity
199. Vaccines
200. Diseases in news



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## International Relations

### International Organization

1. World Economic Forum
2. FATF
3. International Criminal Court
4. International Court Of Justice
5. India Middle East Europe Economic Corridor
6. 5 Eyes Alliance
7. CTBT
8. Geneva Conventions
9. ASEAN- GCC Summit
10. UN Resolutions and INDIA
11. COP- 28
12. NATO
13. Belt & Road Initiative
14. CPEC
15. Global Partnership On Artificial Intelligence
16. Lithium Triangle Countries
17. CPTPP
18. IPEF
19. IORA
20. EU
21. APEC
22. Interpol
23. IMF
24. African Union
25. OPEC
26. MTCR
27. Australia Group
28. Wassenaar Arrangement
29. Nuclear Supplier Group
30. NPT
31. RCEP
32. AIIB
33. NDB

34. UN System
35. Arctic Council
36. Partners In Blue Pacific
37. Pacific Island Forum
38. G-20
39. G-7
40. BIMSTEC
41. Global Gateway Initiative
42. ECOWAS
43. BRICS

### India's Neighbourhood

44. BIMSTEC vs SAARC
45. India Maldives
46. Colombo Security Conclave
47. Indus Water Treaty
48. IMF & Sri Lanka
49. McMohan Line
50. India Bangladesh Relations
51. Cocos Islands
52. Kalapani Dispute
53. India Myanmar Relations
54. China's 3 New Initiatives
55. Katchatheevu Islands
56. Balochistan Issue
57. China- Bhutan Boundary Talks
58. India Bangladesh Rail Links
59. Bhutan's Graduation From LDC
60. Operation 1027

### ACT EAST

61. Japan's NSS
62. Japan Russia Dispute
63. China Taiwan Relations
64. The Pacific Frontier Of France
65. ASEAN Solidarity Exercise
66. South China Sea
67. APEC Summit 2023

## Central Asia

- 68. INSTC
- 69. Nagorno Karabakh Corridor
- 70. C+C5 Summit
- 71. Bishkek Protocol
- 72. India & SCO

## India- Africa

- 73. Crisis in Horn of Africa
- 74. Tigray Crisis
- 75. Eritrea Ethiopia Conflict
- 76. Sudan Conflict
- 77. Importance of Djibouti
- 78. Russia Africa Summit
- 79. AU in G-20
- 80. Floods in Libya
- 81. Niger Coup
- 82. Sahel Region
- 83. Displacement in Congo
- 84. Lobito Corridor
- 85. Coup in Sierra Leone
- 86. Blood Diamonds
- 87. India Kenya Relations
- 88. Djibouti Code Of Conduct
- 89. Red Sea Crisis
- 90. Alliance of Sahel States

## Miscellaneous Topics

- 91. Serbia Kosovo Conflict
- 92. Crisis In Syria
- 93. Spy Balloons
- 94. NEW START Treaty
- 95. Menstrual Leave Policies Across the World
- 96. Chip 4 Alliance
- 97. Scottish Independence
- 98. Critical Minerals
- 99. Sri Lanka Anti-Terror Law

- 100. Title 42
- 101. Washington Declaration
- 102. Chagos Archipelago
- 103. FIPIC Summit
- 104. Atlantic Declaration
- 105. G7 Hiroshima AI Process
- 106. Hamas & Fatah
- 107. Rafah Crossing
- 108. Gaza War - UNGA Vote
- 109. Vienna Convention
- 110. Israel- Hamas Conflict & Africa's Reaction
- 111. UDHR
- 112. Schengen Process
- 113. Dublin regulation

### Look West

- 114. Israel- Hamas War
- 115. India Israel Ties
- 116. Iran- Saudi Deal
- 117. Syria Israel
- 118. Captagon
- 119. Mand Pishin Marketplace
- 120. India Egypt Ties
- 121. I2U2
- 122. Israeli Judicial Law reform
- 123. Saudi Peace Summit
- 124. BDS Movement
- 125. Ben Gurion Canal Project
- 126. Hezbollah
- 127. Yom Kippur War
- 128. Yemen Crisis
- 129. Chahbahar Port
- 130. Genocide Case Against Israel
- 131. Helmand River Treaty



## India & World

132. Price Cap Coalition
133. ICET
134. Windsor Agreement
135. AUKUS
136. EU Migration Deal
137. DPI Summit
138. India- USA Ties
139. Wagner Group
140. Global South
141. India- France Ties
142. Strategic Northern Triangle
143. India & NSR
144. India Greece
145. Black Sea Economic Cooperation
146. Black Sea Grain Deal
147. India Italy Ties
148. Argentina- Shock therapy
149. Global Gateway Initiative
150. Venezuela Guyana Dispute
151. History of Northern Ireland

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## Polity & Governance

1. **Historical Background of Indian Constitution**
2. **Making of constitution**
3. **Functions of Constitution**
4. **Constitutionalism**
5. **Rule of Law**
6. **Principles of Natural Justice**
7. **Types of Law**
8. **Preamble**
9. **Socialism and types**
10. **Types of Democracy**
11. **Union and Its territories**
12. **Jammu and Kashmir Delimitaiton**
13. **Supreme court judgement on Article 370.**
14. **Citizenship,**
15. **OCI card**
16. **Foreigners Act 1946, Assam Accord, Section 6A of Citizenship Act**
17. **Citizenship Amendment Act 2019**
18. **Citizenship Amendment Rules**
19. **Fundamental Rights**
20. **EWS Reservation and judgement**
21. **SC/ST Prevention of atrocities act**
22. **Writs and Types**
23. **Right to Marry**
24. **Sedition law and IPC/BNS changes**
25. **Hate Speech**
26. **Preventive detention laws**
27. **AMU Religious minority status**
28. **Places of Worship Act 1991**
29. **Scope of Article 21**
30. **Directive principles outside Part 4**
31. **1<sup>st</sup> Constitutional Amendment Act**
32. **Relation between FR and DPSP**
33. **Unique features of Indian federalism**

34. Emergency Provisions
35. Use of Article 356
36. Inter State Disputes
37. Role of Governor (Constitutional understanding)
38. Anti Defection law and intricate details (including historical background)
39. Religious freedom (Fundamental Rights) and related case laws (Context - Places of worship Act)
40. Delimitation Commission
41. Parliament -Composition
42. Presiding Officers
43. Parliament Secretariat
44. PESA Act
45. Nari Shakti Vandan (106<sup>th</sup> Constitutional Amendment Act)
46. Motions versus resolution
47. Legislative process in parliament
48. Parliamentary Committees
49. Parliamentary privileges
50. Suspension of MP/MLA
51. Money Bill and Budgeting Process
52. Basic Structure and what is/is not included
53. Personal Laws versus Fundamental Rights
54. Uniform civil code and resultantly all DPSP
55. Local Bodies and Elections
56. PMLA and ED
57. UAPA
58. Representation of People Act 1950 and 1951
59. Election Symbols Allocation order 1968
60. Postal Voting
61. Proxy voting
62. Disqualifications of legislators
63. Political parties Funding/Income tax Act sections/RPA
64. Electoral Bonds
65. UAPA

66. 6<sup>th</sup> schedule and historical background
67. Government schemes for health and nutrition
68. Government schemes for education
69. Government schemes for women and childcare
70. Consumer Rights and Consumer laws
71. Judiciary (Supreme Court -constitutional articles-additional judges/Foreign lawyers allowed to practice)
72. Collegium system and case laws
73. Special status for States Article 371
74. Cooperatives (Govt schemes, Multi State Cooperative Societies Amendment Act 2023)
75. Centre State Relations (especially financial)
76. Post GST changes and issues in Financial Relations
77. Caste Census/Census/Sub categorisation/affirmative action
78. Prisons and Prisons Act
79. Legal Aid
80. Alternate Dispute Redressal
81. Bail
82. FIR versus chargesheet
83. Parole/Furlough
84. Custody/arrest/remand/house arrest
85. Remission policy
86. Pardoning Power
87. Lawyer versus advocate versus barrister versus Advocate on Record versus Senior Advocate
88. Tribunals
89. Digital Data Protection Act
90. Press and Registration of Periodicals Act 2023
91. Lokpal
92. RTI
93. Schedules of Constitution
94. Types of Majorities
95. Most Important Constitutional amendments
96. Schedules of the constitution
97. Election Commission

98. Finance Commission
99. UPSC, SPSC and JSPSC
100. CAG
101. Attorney General
102. NCSC/NCBS/NCST
103. CVC/CBI/LOKPAL
104. Important acts passed in last 5 years
105. NHRC/SHRC
106. National Commission for Minorities
107. Bar Council
108. Law Commission
109. Doctrine of Adverse Possession
110. Doctrine of Stare Decisis
111. Doctrine of HARMONIOUS CONSTRUCTION
112. Doctrine of Pith and Substance
113. Doctrine of Incidental and ancillary powers
114. Doctrine of Eclipse
115. Doctrine of Per Incuriam
116. Review Petition
117. Curative Petition
118. Bharat Ratna and Padma Awards
119. National Creators Awards
120. National Sports Awards

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## Geography

### Solar System

1. Origin of the Universe
2. Origin of the Earth
3. Solar System
4. PYQ- Solar System

### Physical Geography

5. Continental Drift theory
6. Convectional Current theory
7. Sea floor Spreading theory
8. Plate Tectonics
9. Interior of the Earth
10. Earthquakes
11. Rock cycle
12. Volcanoes
13. Mantle Plumes
14. Pacific Ring of Fire
15. Distribution of Earthquakes
16. Distribution of Volcanoes
17. PYQ - Interior of the Earth

### The Earth

18. Shape of the Earth
19. Gravitation at Poles and Equator
20. Rotation of the Earth
21. Revolutio
22. Earth's Axial Tilt
23. Heat Zones of the earth
24. International Date line
25. PYQ - Earth

## Climatology

26. Layers of the Atmosphere
27. PYQ - Atmosphere
28. Insolation
29. Heating & Cooling of Atmosphere
30. Heat budget of the earth
31. Temperature
32. Distribution of Temperature
33. Temperature Inversion
34. PYQ - Solar radiation, Temperature
35. Atmospheric Pressure
36. Pressure and Winds
37. Pressure Belts and Wind Distribution
38. Classification of Winds
39. Local Winds
40. Jet stream
41. Airmass
42. Fronts
43. Tropical cyclones
44. Extra tropical cyclone
45. PYQ - Atmospheric circulation
46. PYQ - Cyclones
47. Condensation
48. Evaporation
49. Humidity
50. Clouds
51. PYQ- Water in the Atmosphere

## Oceanography

52. Ocean Currents
53. AMOC
54. Temperature of ocean water
55. Salinity of ocean waters
56. Division of ocean floor
57. Tides
58. Waves

**59. PYQ - Oceanography**

**World climate**

- 60. Equatorial Climate
- 61. Tropical Monsoon and Marine Climate
- 62. Savanna Climate
- 63. The Hot Desert and Mid - Latitude Desert Climate
- 64. Mediterranean Climate
- 65. Steppe climate
- 66. China Type climate
- 67. British Type climate
- 68. Siberian Climate
- 69. Laurentian
- 70. The Arctic or Polar Climate
- 71. PYQ - World Climate

**Indian Geography**

- 72. Indian Monsoon
- 73. El Nino & La Nina
- 74. Walker Circulation
- 75. ENSO
- 76. El Nino Modoki
- 77. La Nina Modoki
- 78. Indian Ocean Dipole
- 79. Madden Jullian Oscillation
- 80. PYQ - Monsoon and associated topics
- 81. Natural Vegetation
- 82. PYQ - Natural Vegetation
- 83. Soil
- 84. PYQ - Soil
- 85. Indian Physiographic Division
- 86. Great Plains of India
- 87. Himalayas
- 88. Peninsular Plateau
- 89. PYQ - Physical features
- 90. Drainage system- terms
- 91. Himalayan drainage
- 92. Peninsular drainage



- 93. Indus river system
- 94. The Ganga system
- 95. The Brahmaputra system
- 96. Peninsular drainage systems
- 97. PYQ - drainage
- 98. Agriculture
- 99. PYQ - agriculture

#### Resources

- 100. Iron
- 101. Copper
- 102. Mica
- 103. Bauxite
- 104. Manganese
- 105. Limestone
- 106. Coal
- 107. Geothermal energy
- 108. Tidal energy
- 109. Tidal energy
- 110. Nuclear energy
- 111. Petroleum
- 112. Natural gas
- 113. Solar energy
- 114. Wind energy
- 115. Inland waterways
- 116. Ports
- 117. Shale gas
- 118. Gold
- 119. Silver
- 120. PYQ - resources

#### Map based topics

- 121. Straits
- 122. Deserts
- 123. Mountains
- 124. Lakes
- 125. Rivers
- 126. Water bodies

- 127. Islands
- 128. Volcanoes
- 129. PYQ - Map based Topics
- 130. Current Affairs
- 131. Tribes in News
- 132. Concepts in News
- 133. Terms in News
- 134. Protected areas in News
- 135. PYQ - Places in News
- 136. Places in News
- 137. PYQ - Places in News
- 138. Physical Features in News

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## History

### Ancient and Medieval.

1. Ajanta Caves
2. Ahom Dynasty - Lachit Borkhupan
3. Allaudin Khilji - Khilji Dynasty
4. Ashokan Edicts
5. Baba Banda Singh Bahadur
6. Bhakti movement
7. Geo Heritage Sites
8. Ghiyas-ud-din Balban
9. Gupta Age culture
10. Kakatiya Dynasty
11. Khijr Khan
12. Kodumanal Burial Site
13. Kushana Time Period
14. Lhotsva Lhakhang Temple
15. Lokesvara Buddha
16. Mahajanpadas
17. Mitakshara Law
18. Orthodox philosophies of Hinduism
19. Pratiharas and Rashtrakutas
20. Santiniketan
21. Sattras of Assam
22. Vijayanagara Empire

### Modern History

1. All India Anti - Untouchability League
2. All India Kisan Sabha
3. Bethune College
4. Cabinet Mission Plan
5. Calcutta Unitarian Committee
6. Civil Disobedience Movement
7. Cripps Proposals
8. Gazulu Lakshminarasu Chetty
9. Gopal Baba Walangkar

10. Government of India Act of 1919
11. Government of India Act of 1935
12. Hindu Female School
13. Ilbert Bill controversy
14. Indian Association
15. Jogesh Chandra Chatterjee
16. Kheda Satyagraha
17. Land settlement system
18. Lala Lajpat Rai
19. Manganiyars
20. Morley Minto Reforms
21. Nehru report
22. Non-Cooperation movement
23. Operation POLO in Hyderabad
24. Partition of Bengal
25. Poorna Swaraj
26. Queen Victoria's Proclamation
27. Quit India Movement
28. Radhakanta Deb
29. Radcliffe Committee
30. Round Table Conference
31. Sakharam Ganesh Deuskar
32. Sanskrit College at Benaras
33. Self -Respect Movement
34. Simon Commission
35. Simon Commission Report
36. Subsidiary Alliance
37. Tabernacle of New Dispensation
38. Tebhaga Peasant Movement
39. The Butler Committee
40. Theosophical Society
41. Trade Disputes Act
42. Vaikom Satyagraha
43. Vasudhaiva Kutumbkum

44. Wavell Plan

45. Wood's Dispatch

### Art and Culture.

1. Abhilekh patal
2. Adopt a Heritage Programme
3. Ahilyabai Holkar
4. Alupa Dynasty
5. Annapurna Certificate Programme 2
6. Anubhava Mandapa
7. Assam Temple Kamkhya Temple
8. Ashfaqulla Khan
9. Bhagwan Birsa Munda
10. Banni Festival
11. Byculla Railway Station
12. Charaideo Maidams
13. Chola Kingdom and Nataraja Statue
14. Creative cities Network of UNESCO
15. Dar-ul-Amaan Tomb
16. Dhordo Village of Kutch
17. Dogra Architecture of Kashmir
18. GI Tags
19. Girimityas Countries
20. Homo Naledi
21. Humayun's Tomb
22. India Pride Project
23. Indira Gandhi Peace Prize, 2023
24. Jantar Mantar
25. Juna Khatiya Site
26. Jyotirlingas in India
27. Kadamba Inscriptions
28. Kashi Tamil Sangam
29. Keeladi Excavation
30. Khelo India Para Games 2023
31. Khooni Darwaza

32. Kongthong Village
33. Konark Sun Temple
34. Kui Language
35. Kuttunayakan Tribe
36. Mahir Bhoja
37. Maharishi Dayanand Saraswati
38. Mera Gaon Meri Dharohar programme
39. Mihir Bhoja
40. Mohenjo-Daro's Dancing Girl
41. National Flag
42. New Parliament House
43. Nowruz
44. Ol Chiki Script
45. Panamalai Paintings (Tamil Nadu)
46. Pulikkali Dance
47. Rajasthan School of Paintings
48. Ramon Magasaysay Award
49. Raja Ravi Varma
50. Rajya Sabha
51. Sacred Ensembles of Hoysalas
52. Sahitya Akademi Award
53. Sannakka Sarakka Jatra
54. Sarna Code
55. Sachchidananda Sinha
56. Sant Meera Bai
57. Santiniketan
58. Sammed Shikharji
59. Statue of Oneness
60. Sengol
61. Sir Syed Ahmed Khan
62. Sri Alluri Sitarama Raju
63. Tungnath Temple

64. Tankai Method of Shipbuilding
65. Tamil Gnanamuyarchi
66. Toto language
67. United Nations World Tourism Organisation
68. Usha Mehta
69. Uthiramerur Inscription
70. VD Savarkar
71. Wayang Kulit Puppetry

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