

BIOTECHNOLOGY

1. Cell
2. DNA, RNA
3. Genetic Modification (GM) Technology
4. CRISPR cas9
5. Bt cotton
6. DMH 11 (Dhara Mustard Hybrid)
7. GM Crops regulators in India (GEAC, ICAR)
8. Bioeconomy
9. CAR (Chimeric Antigen Receptor)-T Cell Therapy
10. Genome Sequencing
11. IndiGen Programme
12. Genome India Project
13. Human Genome Project
14. Telomere to Telomere (T2T) consortium
15. Dark Genome
16. RNA interference (RNAi) technology
17. mRNA vaccine
18. Enzyme Replacement Therapy
19. Mitochondrial Replacement Therapy (3-parent baby)
20. Gene Drive
21. Cell-free DNA (cfDNA)
22. Stem Cells
23. Gene Therapy for Sickle Cell Disease
24. Molecular Motor

HEALTH

1. Immunity
2. Vaccines
3. Inverse Vaccine
4. About Antimicrobial Resistance (AMR)
5. Biofilm
6. Concept of 'One Health'
7. Orphan diseases
8. Sickle Cell Disease
9. Human Papillomavirus (HPV)
10. Zombie Virus
11. Sickle cell anaemia
12. Viral diseases
13. Dengue vaccine
14. Chikungunya vaccine
15. Lumpy Skin Disease (LSD)

16. Bacterial diseases
17. Drugs price control
18. NAMASTE Portal
19. Food Fortification
20. Biofortification
21. Trans Fat
22. Aflatoxin
23. Non-Sugar Sweeteners
24. Food Safety and Standards Authority of India (FSSAI)
25. Codex Alimentarius Commission (CAC)
26. Xenotransplantation
27. INSACOG
28. GAVI alliance
29. Coalition for Epidemic Preparedness Innovations (CEPI)

INFORMATION & COMMUNICATION TECHNOLOGY

1. 5G vs 4G
2. mmWave
3. Mobile Edge Computing
4. WiFi vs LiFi
5. Virtual Private Network (VPN)
6. Deep Web Vs Dark Web
7. Generative AI
8. Deepfakes
9. 4D Printing
10. Supercomputer
11. Quantum Computing
12. Quantum Key Distribution (QKD)
13. Proof of Work and Proof of Stake
14. Markets in Crypto Assets (MICA) legislation
15. Web 3.0
16. Digi Yatra
17. India Stack
18. National Internet Exchange of India (NIXI)
19. Global Lighthouse Network
20. Cryptojacking
21. E-SIM
22. Bluebugging
23. RFID

SPACE TECHNOLOGY

1. Orbits
2. ISRO's launch vehicles
3. POEM (PSLV Orbital Experimental Module)
4. Chandayaan 3

5. NaVIC (Navigation with Indian Constellation)
6. Regional Navigation Systems
7. Artemis I
8. James Webb Space Telescope (JWST)
9. JUICE Mission
10. OSIRIS-Rex Mission
11. GAGAN (GPS Aided GEO Augmentation and Navigation)
12. Tidal Locking
13. Aditya L1 mission by ISRO
14. Structure of Sun
15. Moon craters
16. Blood Moon
17. Universe composition
18. Laser Interferometer Gravitational-Wave Observatory (LIGO)
19. Gravitational lensing
20. Black Holes
21. Types of neutron stars
22. Distance from sun
23. Dwarf planets
24. Betelgeuse, Bellatrix
25. Goldilocks zone

DEFENCE

1. Types of Missiles
2. Jet Engines
3. S400
4. Astra Missile
5. MQ-9B Reaper Drone
6. Project 75 India – p75(I)
7. Varunastra

MISC

1. Nobel Prizes in Physics 2023
2. Nobel Prizes in Chemistry 2023
3. Nobel Prize in Physiology or Medicine 2023
4. Neutrinos
5. Fundamental forces
6. Uranium
7. Vanadium

IMPORTANT TOPICS FOR PRELIMS 2024 (ENVIRONMENT & GEOGRAPHY)

CLIMATE CHANGE

1. GHG effect
2. Greenhouse gases
3. Short-lived Climate pollutants
4. Black Carbon
5. Brown Carbon
6. Blue Carbon
7. Green Carbon
8. Ocean Acidification (called 'evil twin of global warming')
9. Ozone Depletion
10. Ozone-depleting Substances
11. Vienna Convention, 1985
12. UNFCCC
13. COP28-Dubai-outcomes
14. India's Panchamrit Commitments (COP26 Glasgow)
15. Mission LIFE (Lifestyle For Environment)
16. Global Methane Initiative
17. International Solar Alliance (ISA)
18. First Movers Coalition
19. Fit for 55 package
20. Carbon Border Adjustment Mechanism (CBAM)
21. Green Deal Industrial Plan
22. Just Energy Transition Partnerships (JETP)
23. Forest Carbon Credit Stamp
24. Partnership to Advance Clean Energy (PACE)
25. Climate Financing
26. Climate engineering/geo-engineering
27. Biochar
28. Sunlight reflection methods
29. IPCC 6th Assessment Report
30. State of Cryosphere 2023
31. State of Global Climate Report 2022
32. Greenhouse Gas Bulletin
33. Emissions Gap Report 2023
34. Adaptation Gap Report 2023
35. Production Gap Report 2023
36. Climate Change Performance Index 2024
37. Global Climate Risk Index

POLLUTION

1. Air pollutants
2. National Air Quality Index (AQI)

3. National Ambient Air Quality Standards (NAAQS)
4. SAFAR (System of Air Quality and Weather Forecasting and Research)
5. Graded Response Action Plan (GRAP)
6. Commission for Air Quality Management in NCR and Adjoining Areas (CAQM)
7. Central Pollution Control Board (CPCB)
8. National Clean Air Programme (NCAP)
9. Portal for Regulation of Air-pollution in Non-Attainment cities (PRANA) portal
10. Swachh Vayu Sarvekshan 2023
11. PM emissions from burning crop residue (g/kg)
12. Pusa bio-decomposer
13. Torrefaction
14. Coal in India
15. Pollution Control Technologies (PCTs) at different stages of a power plant's operations
16. Fly Ash
17. Radon
18. Green crackers – SWAS, STAR, SAFAL
19. Petroleum & Explosives Safety Organisation (PESO) HQ: Nagpur
20. Cloud Seeding
21. Ozone pollution
22. BOD, COD, Dissolved Oxygen
23. Bioaccumulation, Biomagnification
24. Diseases by pollutants
25. Microplastic, Nanoplastic
26. Plasticrust
27. Dead zone
28. Great Pacific Garbage Patch
29. GloLitter Partnership
30. MARPOL Convention, 1973
31. London Convention, 1972
32. Honolulu strategy
33. Composite Water Management Index
34. Dublin Principles
35. Groundwater
36. Bodies related to water
37. India WRIS (Water Resources Information System)
38. Zero Liquid Discharge
39. River Cities Alliance (RCA)
40. Plastic Overshoot Day
41. Plastic Waste Management Amendment Rules, 2021
42. Un-plastic Collective (UPC)
43. Invisible e-waste
44. Waste to energy
45. Bioremediation
46. Conventions

BIODIVERSITY

1. Indian Tiger/Royal Bengal Tiger
2. Leopard
3. Snow Leopard
4. Cheetah
5. Asiatic Lion
6. Asian Elephant
7. Indian Rhino (Great One-Horned Rhino)
8. Great Indian Bustard
9. Global Declaration of River Dolphins
10. Gangetic Dolphin
11. Vulture
12. Indian Pangolin
13. Gharial
14. Hoolock gibbon
15. Dugong (Sea Cow)
16. Ghol or Black spotted Crocker
17. Red Sanders (*Pterocarpus santalinus*)
18. Gentiana Kurroo
19. Golden Langur
20. Butterfly in news
21. Himalayan Serow
22. Invasive Alien Species
23. Turtles vs Tortoise
24. Monotremes
25. Protected Areas
26. Important Laws, Bodies, Terms
27. PARIVESH portal
28. CRZ norms, 2018
29. Ramsar sites
30. Peatlands
31. Blue Flag
32. Cryptobiosis
33. Facultative parthenogenesis (FP) (also referred as “virgin birth”)
34. Environmental DNA (eDNA)
35. UN Decade on Ecosystem Restoration
36. Living Planet Report
37. Living Planet Index
38. Global Biodiversity Outlook

SUSTAINABLE DEVELOPMENT

1. Biofuels
2. National Policy on Biofuels, 2018
3. Global Biofuel Alliance (GBA)
4. Green Deposits

5. Solar Energy
6. Wind Energy
7. Hydrogen
8. Hydrogen for Heritage scheme
9. Sustainable Alternative Towards Affordable Transportation (SATAT) Scheme
10. Flex Fuel Vehicle
11. Fugitive emissions
12. Mission on Advanced and High Impact Research (MAHIR)
13. RETAP
14. Methane hydrates
15. Green Term Ahead Market (GTAM)
16. Geothermal Energy
17. Star Labelling Programme (SLP)
18. Indian Seasonal Energy Efficiency Ratio (ISEER)
19. UTPRERAK (Unnat Takniki Pradarshan Kendra)
20. Fostering Effective Energy Transition report
21. Energy Transition Index
22. World Energy Outlook
23. Global Energy and CO2 Status report
24. Global Electric Vehicles Outlook
25. Geospatial Energy Map of India

AGRICULTURE

1. Zero Budget Natural Farming (ZBNF) terms
2. National Programme for Organic Production (NPOP)
3. Participatory Guarantee Systems (PGS)
4. Jaivik Bharat logo
5. World of Organic Agriculture report 2024
6. Aquaponics, Hydroponics, Aeroponics
7. Vertical farming
8. Conservation Agriculture
9. Cellular Agriculture
10. Millets
11. Millets and Other Ancient Grains International Research Initiative (MAHARISHI)
12. Soil Health Card: 12 parameters
13. Soil
14. Globally Important Agricultural Heritage Systems (GIAHS)
15. Virtual water

GEOGRAPHY

1. Tropical Cyclone conditions
2. La Nina, El Nino
3. Pacific Decadal Oscillation (PDO)
4. Madden Julian Oscillation (MJO)
5. Indian Ocean Dipole (Indian Nino)

6. Atlantic Meridional Overturning Circulation (AMOC)
7. Boreal Summer Intra Seasonal Oscillation (BSISO)
8. Atlantification
9. Heat Dome
10. South Atlantic Anomaly
11. Van Allen Radiation belt
12. Karakoram anomaly

MISC

1. 6th mass extinction
2. Evil Quartet
3. Carbon Fertilisation
4. Great Green Wall
5. Deep Ecology

IMPORTANT TOPICS FOR PRELIMS 2024 (HISTORY)

Ancient History:

1. Indus Valley Civilization
2. Rig Vedic Period
3. Jainism /Buddhism
4. Mauryan Empire
5. Gupta Period
6. Sangam Period

Medieval History:

1. Bhakti/Sufi Movement
2. Indian Feudalism
3. Early Muslim Invasions
4. Vijayanagara Empire

Modern History:

1. The English in India
2. Carnatic Wars
3. Charter Acts
4. Socio-Religious Reform Movements
5. Peasant Movements
6. System of Land Revenue
7. Wood's Dispatch

8. Vernacular Press Act
9. Partition of Bengal
10. Swadeshi Movement
11. Lucknow Pact
12. Home Rule Movement
13. Montford Reforms
14. Government of India Act 1935
15. Khilafat Movement
16. Non- Cooperation Movement
17. Civil Disobedience Movement
18. Round Table Conferences
19. Poona Pact
20. Quit India Movement
21. Governor Generals of India

Art and Culture:

1. Architecture and Sculpture
2. Paintings and Handicrafts
3. Archaeological Sources
4. Literary Sources
5. Foreign Account

IMPORTANT TOPICS FOR PRELIMS 2024 (POLITY)

1. Fundamental Rights
2. Citizenship
3. Quasi-judicial bodies
4. DPSP
5. Preamble
6. International Organisations NATO, OPEC, etc,
7. Electoral Process
8. Parliament
9. Writs In Indian Constitution
10. Executive
11. Cabinet Committees
12. Electoral Reforms
13. Legislature
14. Constitutional Bodies
15. Delhi Services Bill 2023
16. Judiciary
17. Non-Constitutional Bodies
18. Anti Defection Law
19. Federalism
20. Article 370
21. Indian Penal Code

22. Local Self Government
23. Centre State Relations
24. G20 Summit
25. Mission Vatsalya Scheme Inter-State Cooperation

IMPORTANT TOPICS FOR PRELIMS 2024 (ECONOMY)

Basic Concepts

1. Factors of Production
2. National Income
3. GDP, GNP, NDP, & NNP
4. Personal Income

Overview of Indian Economy

1. India's New GDP Series 2011-12
2. Inflation
3. Definition
4. Measurement (WPI, CPI, Deflator)
5. Types and Causes
6. Fiscal Policy
7. Budget and Vote on Account
8. Cut Motions (Policy, Economy, Token)
9. Tax Expenditure
10. Fiscal and Current Account Deficits
11. Government Budgeting
12. FRBM Act
13. Taxation
14. GST
15. UBI
16. Monetary Policy
17. Monetary Policy in India
18. Money Supply
19. Expansionary vs Contractionary Policy
20. REPO
21. Reverse REPO
22. CRR, SLR, MSF, & CRAR
23. Rupee Devaluation
24. UPI
25. Planning and Federalism

Issues Related to Planning

1. Investment Models
2. Mobilization of Resources
3. Growth
4. Development

5. Employment
6. 12th Five Year Plan
7. 15th Finance Commission
8. NITI Aayog
9. Growth and Development
10. Poverty
11. Human Capital
12. National Education Policy 2020
13. SHGs
14. NGOs
15. Economic Growth vs Development
16. Human Development Index
17. Green GDP
18. Gross National Happiness Index
19. MDGs & SDGs

Agriculture

1. Food Processing
2. PDS
3. Land Reforms
4. Agricultural Marketing
5. MSP
6. Cropping Patterns Secondary (Industrial) Sector
 - IIP
 - Make In India
 - Companies Act
 - MSME Tertiary (Service) Sector:
 - NIIF
 - Bankruptcy Code
 - Banking
 - Development Finance
 - Bank Reforms
 - Non-Performing Assets
 - Financial Inclusion
 - Foreign Trade
 - Balance of Payments
 - Free Trade Agreements
 - Masala Bonds
 - FDI
 - Infrastructure (Energy, Roads, Ports, Airports, Railways)
 - Financial Market
 - Speculation
 - Hedging
 - Arbitrage
 - Investment

- Money Market
- Capital Market
- SEBI

World Economy

1. WTO
2. Trade Facilitation Agreement
3. Fiscal Cliff
4. Fiscal Drag
5. Bitcoin
6. NFTs
7. Cryptocurrency
8. Ease of Doing Business
9. Budget and Economic Survey

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