

<p>ENVIRONMENT, ECOLOGY & ECOSYSTEM BASICS</p>	<p>Environment, habitat, ecosystem, classification of ecosystems, abiotic and biotic components, ecosystem vs ecology vs environment</p>
<p>ECOLOGICAL PRINCIPLES & ORGANISATION</p>	<p>Levels (species, population, community, ecosystem, biome, biosphere), ecotone, adaptation, variation, mutation, natural selection, evolution, extinction</p>
<p>ECOSYSTEM FUNCTIONS & DYNAMICS</p>	<p>Ecological succession (primary, secondary, autogenic, allogenic), stages, homeostasis, ecosystem stability</p>
<p>TROPHIC STRUCTURE & ENERGY FLOW</p>	<p>Food chain (grazing, detritus), food web, ecological pyramids (number, biomass, energy), biomagnification</p>

<p>BIOGEOCHEMICAL CYCLES</p>	<p>Carbon cycle, nitrogen cycle (fixation, nitrification, ammonification, denitrification), methane cycle, phosphorus cycle, sulphur cycle</p>
<p>NATURAL ECOSYSTEMS & BIOMES</p>	<p>Terrestrial biomes (tundra, taiga, temperate, tropical, desert), aquatic ecosystems, ecosystem services, valuation (TEEB, PES)</p>
<p>WETLAND ECOSYSTEM & MANGROVES</p>	<p>Wetlands vs lakes, estuaries, mangroves (adaptations, distribution), Ramsar sites, threats and conservation measures</p>
<p>BIODIVERSITY & ITS LOSS</p>	<p>Types (genetic, species, ecological), endemism, biodiversity of India, hotspots, causes of biodiversity loss (habitat loss, invasive species, over-exploitation, pollution, climate change), consequences</p>

<p>BIODIVERSITY CONSERVATION</p>	<p>In-situ (national parks, sanctuaries, biosphere reserves, ESZ), ex-situ conservation, CBD, Cartagena Protocol, Nagoya Protocol, global frameworks</p>
<p>WILDLIFE CONSERVATION</p>	<p>CITES, CMS, IUCN Red List, TRAFFIC, MIKE, Project Tiger, Project Elephant, conservation of species (rhino, lion, dolphin, crocodile, turtle, vultures), NTCA, wildlife laws</p>
<p>FORESTS & REPORTS</p>	<p>ISFR, forest cover, carbon stock, forest types, National Forest Policy, afforestation programmes</p>
<p>AIR POLLUTION (CAUSES & POLLUTANTS)</p>	<p>Types of pollutants (PM, CO, CO₂, NO_x, SO₂, O₃, VOCs, PAHs), sources, radioactive pollution</p>
<p>AIR POLLUTION (EFFECTS & CONTROL)</p>	<p>Smog, acid rain, ozone depletion, health effects, control measures, NCAP, AQI, ETS, Montreal Protocol</p>

<p>WATER POLLUTION & MANAGEMENT</p>	<p>Sources (industrial, agricultural, sewage), eutrophication, dead zones, marine pollution, control measures (bioremediation, treatment), river conservation</p>
<p>SOLID, PLASTIC & HAZARDOUS WASTE</p>	<p>Plastic pollution, microplastics, solid waste management, hazardous waste, POPs, Basel/Stockholm conventions, e-waste management</p>
<p>INDUSTRIAL POLLUTION</p>	<p>Highly polluting industries (TPP, cement, steel, petrochemical), emissions and effluents</p>
<p>LAND DEGRADATION & DESERTIFICATION</p>	<p>Causes (deforestation, erosion, salinity), desertification, UNCCD, land degradation neutrality</p>

<p>CLIMATE CHANGE</p>	<p>Greenhouse effect, GHGs, carbon footprint, impacts (heatwaves, sea level rise, cyclones), coral bleaching, IPCC reports</p>
<p>CLIMATE CHANGE MITIGATION</p>	<p>Carbon capture, sequestration, geoengineering, green economy, climate policies</p>
<p>INTERNATIONAL ENVIRONMENTAL CONVENTIONS</p>	<p>UNEP, UNFCCC, Kyoto Protocol, Paris Agreement, COPs, SDGs, REDD+, global climate governance</p>
<p>NATIONAL ENVIRONMENTAL LEGISLATION</p>	<p>EPA 1986, Air Act, Water Act, Wildlife Protection Act, Forest Acts, Biodiversity Act, NGT, CRZ rules</p>

<p>SUSTAINABLE AGRICULTURE & ENVIRONMENT</p>	<p>Green revolution, sustainable agriculture, organic farming, natural farming, GM crops, precision farming</p>
<p>ENERGY & ENVIRONMENT</p>	<p>Conventional vs renewable energy, solar, wind, biofuels, hydrogen economy, energy conservation, policies</p>
<p>WATER CONSERVATION</p>	<p>Water scarcity, groundwater issues, government schemes (Jal Jeevan, Atal Jal), drought management</p>
<p>SPECIES & CONSERVATION STATUS</p>	<p>IUCN categories, species classification (CR, EN, VU, NT, LC), invasive species</p>
<p>PROTECTED AREAS & CONSERVATION NETWORK</p>	<p>National parks, tiger reserves, biosphere reserves, Ramsar sites, biodiversity heritage sites, wildlife distribution</p>