

SELF STUDY PLANNER & PROGRESS TRACKER

ENVIRONMENT









## **Environment**

Sr. No.	TOPICS	SUB-TOPICS	TASK STATUS
		Types of Ecology	
		Ecological Hierarchy	
		Scope of Ecology	
		Habitat & Ecological Niche	
		Deep vs Shallow Ecology	
		Ecological Principles	
		Ecological Community	
		Stratification	
		Ecotones	
DAY1	Ecology	Ecological Dominance	
		Seasonal and Diurnal Fluctuation	
		Periodicity	
		Turnover	
		Interdependence	
		Ecological Succession	
		Types and Process of Succession	
		Climax Community	
		Range of Tolerance, Maximum Range	
		Difference between Ecology, Environment and Ecosystem	
		Ecosystem Definitions	
		Functions and Properties of Ecosystem	
		The Structure/Components of Ecosystem	
		Abiotic Components	
		Biotic Components	

		Ecosystem Dynamics	
		Flow of Energy in Ecosystem	
		Trophic Levels	
DAY 2	Ecosystem and its dynamics	Food Chain	
		Types & Significance of Food Chain	
		Food Web	
		Models for Energy Flow	
		Ecological Productivity	
		Ecological Pyramid	
		Biomagnifications	
		Biological Control	
		Organic Farming	
		Types of Biogeochemical Cycle	
	Biogeochemical Cycles	Carbon Cycle	
		Nitrogen Cycle	
		Phosphorus Cycle	
		Sulphur Cycle	
Day 3		Biome	
		Grasslands	
	Biomes: Forest, Grassland,	Tundra	
	Mountain, and Desert Ecosystems	Deserts	
		Thar desert	
		Mountain biome	
		Aquatic ecosystems	
		Basic facts about the ocean	

		Importance of the ocean	
		Zones of the ocean	
		Marine life	
		Coral reefs	
		Coral reefs in India	
		Conserving coral reefs	
		Mangroves	
DAY 4	Aquatic Life Zones: Ocean, Rivers, Lakes, and Wetlands	Mangroves in India	
		Freshwater in India	
		Importance of lakes	
		National Lake Conservation Plan	
		Wetlands and their importance	
		Ramsar Convention	
		Ramsar Sites	
		Montreux Record	
		Extent and distribution of wetlands in India	
		Conserving the wetlands of India	
		Biodiversity	
		Important kinds of biodiversity	
		Degree of diversity in an ecosystem	
		Endemic species	
		Keystone species	
		Indicator species	
		Invasive species	
		Allopatric and sympatric speciation	
		Bioinformatics	

		Biodiversity distribution	
		Megadivers Countries	
5.4V.5	Disable and the Davidson	Uses and values of biodiversity	
DAY 5	Biodiversity Basics	State of global biodiversity	
		Threats to biodiversity	
		Biodiversity Hotspots	
		Eco-regions	
		Role of traditional knowledge in biodiversity	
		Biopiracy	
		Extinction of species	
		Mass extinction	
		IUCN's classification scheme	
		IUCN Red-List of Threatened Species	
		Level of biodiversity in India	
		Biogeographical classification of India	
		Ex-situ aid in-situ conservation	
		Seed banks	
		Zoos in biodiversity conservation	
		Botanical gardens	
		Protected areas	
		State of protected areas in the world	
		UNESCO Man and the Biosphere Program (MAB)	
		Characteristics of biosphere reserves	
		International agreements for biodiversity conservation	
		Convention on Biological Diversity	
		Cartagena Protocol	

DAY 6	Biodiversity Conservation	Nagoya Protocol	
		Aichi Biodiversity Targets	
		Important Coastal and Marine Biodiversity A reas of India	
		Important Bird Areas (IBAs) of India	
		Global Tiger Initiative	
		Project Tiger	
		Project Elephant	
		Indian Rhino Vision	
		Recovery Programme for Critically Endangered Species	
		Use of indigenous knowledge for conserving biodiversity	
		Seed village	
		Effect of Modern Agriculture on Environment	
		Effect of Housing on Environment	
		Effect of Power Generation on Environment	
	Effect of Human Activities on Environment	Effect of River Valley Projects (Water Resource Projects) on Environment	
		Effect of Mining on Environment	
		Effect of Transportation Activities on Environment	
		Effect of Tourism on Environment	
		Water Cycle (Hydrological Cycle)	
		Availability and Quality Aspects (groundwater depletion討	
DAY7		Water-borne and Water-induced Diseases	
		Fluoride Problem in Drinking Water	
		Arsenic Problem in Drinking Water	
		Minerals & Environmental Degradation	

	Water Resource degradation	Mining and Environment	
		Sensitivity of Select Ecosystems to Mining	
		Impact of Mining	
		Indirect Impact of Mining	
		International Laws on Mining	
		Main Act or Statute to regulate the impact of Indian Mining Sector	
		Sustainable Mining	
		Causes of Deforestation	
		Implications of Deforestation for Climate Change	
		Consequences of Deforestation on the Wildlife of India	
		Impact of Deforestation on Indian Monsoon	
		Impact of Deforestation on People	
_		Deforestation Leads to Water and Soil Resources Loss and Flooding	
DAY 8	Deforestation	Economical Impacts	
		Strategies for Reducing Deforestation	
		Government Programmes for Conservation of Forests	
		Legislations for Conservation of Forests using People Participation	
		Steps for Improving People Participation in Forest Resource  Management	
		Use of Local Traditional Methods	
		Solid Waste	
		Hazardous Waste	
		E-Waste	
		Bio Medical Waste	
	Waste Management	Plastic Waste	
		Methods for Waste Management	
DAY 9		Effects of Poor Waste Disposal	

		Landfill	
		Principles of sustainability	
		Measurement of Sustainability or Sustainable Ethics or Equitable Utilisation of Natural Resource	
	Sustainable Development	Sustainable Lifestyle (Role of an individual in sustainable development)	
		Challenges to Sustainable Development	
		International Efforts to Achieve Sustainability	
		Air Pollution	
		Sources of Air Pollution	
		Effects of Air Pollution	
		Classification of Air Pollutant	
		Control Measures of Air Pollution	
		Air Pollution Disasters	
DAY 10		Persistent Organic Pollutants (Long Range Transport of Gaseous Air Pollutants)	
DATIO		National Ambient Air Quality Standards	
		Water Pollution	
		Sources of Water Pollution	
		Types of Water Pollutants	
		Effects of Water Pollution	
		Water Quality Standards	
	Environmental Pollution	Control of Water Pollution	
		Thermal Pollution	
		Sources of Thermal Pollution	
		Effects of Thermal Pollution	
		Control of Thermal Pollution	
		Soil Pollution or Land Degradation	
		Sources of Soil Pollution	

DAY II		Effects of Soil Pollution	
		Control Measures	
		Noise Pollution	
		Air-borne Diseases	
		Toxic Substances: Toxicant, Toxicity and Toxicology	
		Factors affecting toxicity	
		Carcinogens	
		Sources of Solid Waste	
		Effect of Solid Waste	
DAY 12	Solid Waste Management	Control Measures of Solid Waste	
		Solid Waste Management Rules	
		Hazardous Waste Management (HWM)	
		Mangroves	
		Salient features of Mangroves	
		Importance of Mangroves	
		Mangroves in India	
		Mangroves under threats	
		Legal and Regulatory Approaches for Protection	
		Estuaries	
DAY 13	Coastal Ecosystem Management	Importance of estuaries	
		Threats to estuaries	
		Coral Reefs	
		Geographical Conditions Required	
		Uses of coral reefs	
		Conservation of coral reef	
		Steps for Coastal Ecosystem	

		Management of Coastal Ecosystem	
		Air Pollution	
		Report on Air Pollution	
		Bharat Stage Emission Standards	
		Polluters Pay Model	
		Household Air Pollution	
		Open Waste Burning and its Impact	
DAY 14		Graded Response Action Plan on Pollution	
		UN Sets Limits on Global Airline	
		Emissions	
		Waste Management	
	Recent developments	Biodegradable Plastics	
		Green Train Corridors	
		Oil Spill	
		Solid Waste Management-Buffer Zone	
		Other News	
		Report of Parliamentary Committee on Forest Fires	
		Urban Forestry Scheme	
		Draft Notification to Regulate Pet Shops	
		Ban on Import of Animal Skin	
DAY 15		River linking Project and Impact on Environment	
		Algal Bloom Issue	
		Illegal Salt Mining and its Impact	
		India's Wetland Report, 2023	
		Deep Sea Mining	

		Ganga River Pollution	
		Government Body which Executes EIA	
	Environmental Impact	Environmental Effects Analysed under EIA	
	Assessment	Process of EIA	
		EIA Ruling 1984	
		Environmental Laws: Provisions in the Indian Constitution towards Environmental Protection	
DAY 16		Salient Features of Air (Prevention and Control of Pollution) Act, 1981	
DATIO		Salient Features of Water (Prevention and Control of Pollution) Act, 1974	
	Environmental Laws	Salient features of Forest Conservation Act, 1980	
		Salient Features of Wildlife Protection Act, 1972	
		Salient Features of Environment (Protection) Act, 1986	
		Role of Government in Environmental Protection	
	Environment related Institutions and Organizations	Pollution Control Boards	
DAY 17		National Green Tribunal	
		Forest Survey of India	
		National Board for Wildlife	
		Ecomark Scheme	
DAY 18		National Afforestation Program	
		National River Conservation Plan	
		National Mission for Clean Ganga	
	Schemes	National Air Quality Index (AQI)	
		National Action Programme to Combat Desertification	
		UJALA Scheme	
		Bharat Stage Norms	

		FAME III	
		UNEP	
		UNDP, UNFCCC, UNCCD	
		Centre for Biological Diversity	
DAY 19	International Environmental Governance	WWF for Nature	
		IUCN - Red List	
		Birdlife International	
		International Conventions/Protocols & their Objectives	
		Green House Effect and Global Warming	
		Global Climate Change: International Efforts to Control Global Warming or Global Climate Change	
DAY 20	Basics of Climate change  Urbanization and climate	Ozone Layer Depletion or Ozone Hole	
DAY 20		Acid Rain	
		El Nino	
		La Nina	
		Pollution in metros and climate change	
		Real estate boom and environment degradation	
DAY 21		Urban Heat Island	
		Polythene bags and pollution	
		Methane generation from waste	
		Agriculture increases Carbon Dioxide Emissions	
		Monoculture practice impacts biodiversity	
		Pollution due to use of chemical fertilizers	
		Soil-related effects	
	Impact of agriculture on climate	Fertilizer's Effect on the Environment	
	past of agriculture of climate	Impact of livestock on environment	
DAY 22		Impact of use of pesticides on environment	

		Impact of GM crop on environment	
		Emission of Methane from agricultural practices	
		Sustainable Agriculture Techniques	
		Health impacts of global warming	
	Global Warming & Health	Mosquito-borne diseases	
		Ozone depletion and human health	
		CONTEMPORARY ISSUES	
		IUCN Report on Mangrove Ecosystems	
		Coral Bleaching in Great Barrier Reef	
DAY 23	Ecosystem and Ecology	Marine Heatwaves in Arctic Ocean	
		Coastal Erosion impacting ecosystem	
		Deoxygenation in Riverine Ecosystems	
		Impact of El Nino on the lakes of World	
		Turtle conservation	
		Tiger conservation	
		Artificial reefs	
		Sundarbans: Becoming a Fragile ecosystem	
		Market-Based Approaches to Forest Conservation	
		Constructed Wetlands: Benefits and Challenges	
DAY 24	Biodiversity	Vultures at Risk in India	
		Great Indian Bustards: Conservation and challenges	
		Threat of Invasive Alien Species	
		India's Soil Erosion Crisis	
		Forest Fires in India	
		Status of Leopards in India 2022	
		IUCN Assessment of the Himalayan Wolf	

		One Year of Project Cheetah	
		Rising pollution in Indian Rivers	
		Pest attack and its impact on crop production	
		Air Pollution Control in India	
		Groundwater Contamination in India	
		Plastic Waste Crisis in the Indian Himalayan Region	
		India's Battle Against Single-Use Plastics	
DAY 25	Pollution	Nitrogen Pollution: Issues and Challenges	
		Radioactive Discharges from Indian Nuclear Plants	
		Acid Rain: Impact on Environment	
		India's Coal Plants: SO2 Emission Control	
		8-Point Plan in NCR and Nearby Regions under GRAP Stage-IV	
		Metal Mining Pollution	
		Microplastics: Impact on Land and water	
		Issue of Solid Waste Management	
DAY 26	Waste Management	Solar Waste Management: New Challenges	
		E-Waste Management in India	
		Converting Plastic Waste into Fuel	
		Anthropocene	
		Declining green cover in Cauvery river basin	
		Green Industrialisation Initiative	
		Manufactured Sand	
DAY 27		Rising Global Temperatures	
		Amazon Forest Fire: Global Impact	
		Desertification: Issues and Challenges	

		Harnessing Biomass Cultivation on Degraded Land	
		Mining in Aravalli Range	
		Ensuring Safety and Health at Work in a Changing Climate	
	Environmental Conservation	Carbon Farming: A Path to Sustainable Agriculture	
		Electric Mobility: A new paradigm in India	
		Water Crisis in Urban India: Impact on Environment	
		Used Heavy Duty Vehicles and the Environment	
		Land Management for Sustainable Development	
DAY 28		India's Green Energy Transition in times of climate change	
		Green Hydrogen: Enabling Measures Roadmap for Adoption in India	
		India's Green Future through BioCNG	
		Ethical, Social and Cultural Risks of Climate Engineering	
		CCUS Policy Framework: NITI Ayog	
		Ammonia: Potential Automotive Fuel	
		SC stand on projects in Kumaon Himalayas	
		Laws for flora and fauna rescue from smuggling	
		Illegal Sand Mining in Indian river basins	
		Climate Migration	
		Regenerative Blue Economy	
		NABARD's Climate Strategy 2030	
		Plastic Waste Management (Amendment) Rules, 2024	
DAY 29	Environmental Governance	Human-Animal Conflict	
		Wild Life Licensing Rules 2024	
		EU's Carbon Border Tax Impact	
		Greenwashing	
		Climate Change Performance Index 2024	

		International Energy Agency's Coal 2023 Report	
		Battery Waste Management Rules, 2022	
		EIA For Himalayan Region	
		Biological Diversity (Amendment) Bill, 2021	
DAY 30	Environmental Laws, Conventions and Protocols	Brazzaville Declaration	
		Recovery of Ozone Layer	
		KAZA Summit 2024 and Wildlife Product Trade	
		Paris Agreement Climate Finance Target for 2022	
		19th Session of United Nations Forum on Forest	
		World Wildlife Crime Report 2024	
		The State of the Climate in Asia 2023	
		Green Credit Program	
		Human Rights and Environment	
		Kunming-Montreal GBF Implications for India's Indigenous Tribes	
		Climate Finance Road to COP29	
		Global E-waste Monitor 2024	
		Global Methane Tracker 2024	
		State of the Global Climate 2023: WMO	
		World Air Quality Report 2023	
		IPCC Reports and Equity in Climate Change Mitigation	
		The Unjust Climate: FAO	
		CMS COP14	
		Emissions Gap Report 2023: UNEP	
		Bonn Climate Meet	