



## **CONCEPTS IN NEWS**

# May 2025;



Keyword	Official Definition	Easy Explanation
Urban Heat Island	Urban areas that are significantly	Cities feel hotter than nearby
(ині)	warmer than their rural surroundings	villages because of buildings,
	due to human activities.	roads, and fewer trees.
Albedo	The proportion of the incident light or	How much sunlight a surface
	radiation that is reflected by a surface.	reflects. White reflects more,
		black less.
Ecosystem Service	Payments made to individuals or	Money paid to farmers or
Payments (PES)	communities for undertaking actions	communities to protect
	that increase environmental services.	nature.
Agrivoltaics	Combining solar energy generation	Growing crops and
	with agricultural production on the	producing solar power on the
	same land.	same land.









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Pseudo-		Deceptive or superficial efforts to	Pretending to care for the
environmentalism		appear environmentally friendly.	environment without real
			action.
Greenwashing		Disinformation to present an	When companies pretend to
		environmentally responsible public	be eco-friendly to look good.
		image.	
Net Zero		A state where greenhouse gases	Pollution going out equals
		emitted are balanced by those	pollution removed – zero net
		removed from the atmosphere.	pollution.
Carbon Offset Mark	ets	Allow companies to invest in	Paying to reduce or absorb
		environmental projects to balance out	carbon somewhere else
		their own emissions.	when you pollute.
Nature-Based		Actions to protect, sustainably	Using forests, wetlands, etc.
Solutions		manage, and restore ecosystems to	to fight climate change and
		address societal challenges.	protect biodiversity.
REDD+		A framework to reduce emissions from	Paying countries to save
		deforestation and forest degradation.	forests and reduce carbon
		deforestation and forest degradation.	forests and reduce carbon emissions.
Biodiversity Credits	5	deforestation and forest degradation.  Tradable certificates representing	
Biodiversity Credits			emissions.
Biodiversity Credits		Tradable certificates representing	emissions.  Companies buy these to
Biodiversity Credits  Environmental Due		Tradable certificates representing conservation actions to protect	emissions.  Companies buy these to show they are protecting
,		Tradable certificates representing conservation actions to protect species or habitats.	emissions.  Companies buy these to show they are protecting nature.
Environmental Due		Tradable certificates representing conservation actions to protect species or habitats.  A process to identify environmental	emissions.  Companies buy these to show they are protecting nature.  Checking if a project harms
Environmental Due		Tradable certificates representing conservation actions to protect species or habitats.  A process to identify environmental risks before investment or	emissions.  Companies buy these to show they are protecting nature.  Checking if a project harms the environment before
Environmental Due Diligence		Tradable certificates representing conservation actions to protect species or habitats.  A process to identify environmental risks before investment or transactions.	emissions.  Companies buy these to show they are protecting nature.  Checking if a project harms the environment before approval.
Environmental Due Diligence		Tradable certificates representing conservation actions to protect species or habitats.  A process to identify environmental risks before investment or transactions.  An economic system aimed at	emissions.  Companies buy these to show they are protecting nature.  Checking if a project harms the environment before approval.  Reuse, recycle, repair —
Environmental Due Diligence		Tradable certificates representing conservation actions to protect species or habitats.  A process to identify environmental risks before investment or transactions.  An economic system aimed at eliminating waste and the continual	emissions.  Companies buy these to show they are protecting nature.  Checking if a project harms the environment before approval.  Reuse, recycle, repair — instead of throwing things
Environmental Due Diligence Circular Economy		Tradable certificates representing conservation actions to protect species or habitats.  A process to identify environmental risks before investment or transactions.  An economic system aimed at eliminating waste and the continual use of resources.	emissions.  Companies buy these to show they are protecting nature.  Checking if a project harms the environment before approval.  Reuse, recycle, repair — instead of throwing things away.
Environmental Due Diligence Circular Economy		Tradable certificates representing conservation actions to protect species or habitats.  A process to identify environmental risks before investment or transactions.  An economic system aimed at eliminating waste and the continual use of resources.  Environmental, Social, and Governance	emissions.  Companies buy these to show they are protecting nature.  Checking if a project harms the environment before approval.  Reuse, recycle, repair — instead of throwing things away.  A way to judge if a company







Carbon Border	EU policy imposing carbon price on	Extra tax on imported goods
Adjustment	imports to avoid carbon leakage.	if they come from polluting
Mechanism (CBAM)		countries.



#### **Science and Technology**

Keyword	Official Definition	Easy Explanation
dsRNA (double-	A type of RNA with two	A form of RNA that helps in
stranded RNA)	complementary strands involved in	turning off certain genes.
	gene silencing mechanisms.	
RNA Silencing	A process where RNA molecules	RNA blocks certain genes from
	inhibit gene expression or translation.	working.
HIGS	Host-Induced Gene Silencing: Plants	Plants use RNA to protect
	produce RNA to silence genes in	themselves from pests.
	pests/pathogens.	
SIGS	Spray-Induced Gene Silencing: RNA	Protecting crops by spraying
	sprayed on plants to control pests or	RNA that blocks harmful genes.
	diseases.	
siRNA	Small interfering RNA: short RNA	Tiny RNAs that switch off
	molecules that silence specific genes.	unwanted genes.
GenomeIndia Project	National project to sequence Indian	India's plan to map genes of its
	genomes to study population	people for better health
	diversity.	insights.
Phenotype Data	Observable traits from gene and	Physical features like height,
	environment interaction.	eye color, etc.
Satellite Internet	Internet access delivered through	Internet from space instead of
	communication satellites.	cables or towers.
Starlink	SpaceX's satellite internet	Elon Musk's project to give fast
	constellation providing global	internet from satellites.
	coverage.	
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VSAT Licence	Authorization to operate Very Small	Government's permission for
	Aperture Terminal communication	private satellite
	systems.	communications.
Ku/Ka Band	Frequency bands used in satellite	Radio signals used for satellite
	communications.	TV and internet.
IN-SPACe	Indian National Space Promotion and	Government agency helping
	Authorization Center for private space	private space launches in India.
	missions.	
Dynamic Coupled	Climate prediction using interaction	Weather forecast using ocean-
Forecasting	between ocean and atmosphere.	air models for better accuracy.
Monsoon Mission	Indian initiative to improve prediction	A government program to
	of monsoon patterns.	forecast monsoon more
		accurately.
Multi-Model	Forecast combining multiple weather	Using many forecasts together
Ensemble Forecast	models for better results.	to get a reliable weather
		prediction.
Convolutional Neural	Deep learning model mainly used in	A smart algorithm that helps
Network (CNN)	image and speech recognition.	machines recognize pictures
		and sounds.
Audiomoth Ultrasonic	Device for recording ultrasonic wildlife	A tool to capture animal sounds
Microphone	sounds.	we can't normally hear.
Safe Harbour (in tech	Legal protection to tech platforms	Platforms not punished for what
regulation)	from liability for user content.	users post (if they follow rules).
Platform	Holding digital platforms responsible	Making apps/websites
Accountability	for harmful content or data misuse.	answerable for what they allow
		online.
Algorithmic	Use of automated systems and	Rules made or enforced using
Governance	algorithms in decision-making.	software and algorithms.
Generative AI	Al systems that create new content	Al that can write, draw, or make
	like text, images, music, etc.	music like a human.







Models (LLMs) generate human-like language. like people.  Hallucination (AI When AI generates false or misleading information.  Explainability (AI) The extent to which an AI's decision can be understood by humans. How easily humans can understand why AI made a decision.  Model Interpretability Ability to explain how an AI model arrives at its outputs.  Transformer A neural network model used in Ianguage processing tasks.  Deepfake AI-generated fake images, videos, or audio that mimic real people.  RegTech Use of technology to manage regulatory compliance.  AI Watermarking Technique to mark AI-generated content for traceability.  Open-source vs Debate between public vs private access to AI model code.  AI Risk Classification (EU's method to rate AI systems by risk level.  Surveillance Economic model where user data is earning money by watching and using people's online behavior.  Platform Neutrality Concept that platforms should treat and survey and survey and that acceptance is an audio favor any platform shouldn't favor any and survey and that acceptance is a survey and that platforms shouldn't favor any and survey acceptant acceptance.	Large Language	Al trained on massive text data to	Smart AI that talks and writes
term) misleading information. answers confidently.  Explainability (AI) The extent to which an AI's decision can be understood by humans. understand why AI made a decision.  Model Interpretability Ability to explain how an AI model arrives at its outputs. Understanding how AI thinks or arrives at its outputs.  Transformer A neural network model used in Ianguage processing tasks. Tech structure behind ChatGPT and similar tools.  Deepfake AI-generated fake images, videos, or audio that mimic real people. Use of technology to manage regulatory compliance.  RegTech Use of technology to manage regulatory compliance.  AI Watermarking Technique to mark AI-generated content for traceability. Something was made by AI.  Open-source vs Debate between public vs private access to AI model code. Wodels  AI Risk Classification (EU's method to rate AI systems by risk level.  Surveillance Economic model where user data is extracted for profit. Earning money by watching and using people's online behavior.  Platform Neutrality Concept that platforms should treat Platforms shouldn't favor any	Models (LLMs)	generate human-like language.	like people.
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Platform Neutrality Concept that platforms should treat Platforms shouldn't favor any	Capitalism	extracted for profit.	and using people's online
			behavior.
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user, content, or company.		all users/content equally.	user, content, or company.









#### **Economy**

Keyword	Official Definition	Easy Explanation
Merchant Discount	Fee charged to merchants by banks for	Shopkeepers pay this small
Rate (MDR)	processing digital transactions.	fee to banks on card
		payments.
UPI Lite	Offline small-value payment system	A quick UPI version that works
	using UPI without real-time bank	without internet for small
	communication.	payments.
NPCI	Organization managing digital payment	NPCI runs India's digital
	systems like UPI, RuPay in India.	payments — like UPI, RuPay,
		IMPS.
Carbon Credit	Permit allowing the emission of one ton	A license to pollute a little –
	of CO <sub>2</sub> , tradable between	can be bought or sold.
	countries/companies.	
Greenhouse Gas	GHG emissions per unit of GDP.	How much a country pollutes
Emissions Intensity		for every rupee it earns.
(GEI)		
Input Deregulation	Lifting of government control on	Letting industries or farmers
	agricultural or industrial inputs.	buy inputs freely without
		government fix.
Renewable Energy	Extra cost of generating electricity from	Clean energy costs a little
Premium	renewable sources.	more than coal-based
		power.
Fiscal Space	Government's ability to spend without	How much extra money the
	risking debt sustainability.	govt has to spend safely.









Index of Industrial	A measure of growth in various	A report card on how well
Production (IIP)	industrial sectors in India.	factories in India are working.
De-dollarization	Reducing dependence on the US dollar	Countries trading without
	in global trade and reserves.	using the dollar.
Petro-yuan	China's proposal to buy/sell oil in Yuan	Buying oil using Chinese
	instead of US dollars.	currency instead of dollars.
Global South	A term for developing nations of Africa,	Poorer, developing countries,
	Latin America, and Asia.	mostly in the southern
		hemisphere.
Sovereign Gold Bond	Govt-issued bond linked to the price of	A safe way to invest in gold
	gold with fixed interest.	without buying physical gold.
Net Interest Margin	Difference between income earned on	How much profit banks earn
	loans and interest paid on deposits.	on the money they lend.
Capital Expenditure	Money spent on acquiring or	Big investments by
	maintaining assets like buildings, roads,	government or companies on
	etc.	physical projects.
Current Account	When a country's imports exceed its	India spends more on foreign
Deficit	exports in goods, services, and transfers.	stuff than it earns.
Global Value Chains	Different stages of a product's	A product is made part-by-
	production located across multiple	part in many countries.
	countries.	
Tariff Escalation	Imposing higher duties on finished	Finished products are taxed
	goods than raw materials.	more than their raw inputs.
Sunset Clause	A law or agreement that ends	A rule that stops applying
	automatically after a set period.	after a specific time.
Free Trade	Agreements between countries to	Countries agree to trade
Agreements (FTAs)	reduce tariffs and trade barriers.	goods with fewer taxes or
		limits.
Inflation Targeting	Central bank policy of maintaining	RBI tries to keep prices from
	inflation within a specified range.	rising too much or falling too
		low.









Fiscal Consolidation	Steps to reduce fiscal deficit and	Government cuts spending or
	improve financial health.	increases revenue to reduce
		borrowing.
Credit Cycle	Repeated phases of easier and tighter	Sometimes banks give loans
	lending by financial institutions.	easily, sometimes they don't.
Carbon Budgeting	Limit set on total greenhouse gases that	The world's pollution limit to
	can be emitted to stay under climate	prevent dangerous warming.
	goals.	
Stubble-Based	Commercial solutions for using crop	Turning leftover farm waste
Market Solutions	residue instead of burning it.	into useful products like fuel.



Keyword	Official Definition	Easy Explanation
Simla Agreement	1972 agreement between India and	India and Pakistan agreed to sort
	Pakistan to resolve issues peacefully.	problems through talks, not war.
Indus Waters Treaty	1960 water-sharing treaty between	India and Pakistan share rivers
(IWT)	India and Pakistan brokered by the	under this water agreement.
	World Bank.	
Line of Control	Military control line dividing Indian and	The unofficial border in Kashmir
(LoC)	Pakistani administered Jammu &	between India and Pakistan.
	Kashmir.	









biodiversity beyond national	in areas outside country borders.
urisdictions.	
United Nations Ocean Conference 3 for	A UN meeting to save and
protecting marine ecosystems.	manage the oceans.
A Pakistan-based terror group linked	A terror group responsible for
to Lashkar-e-Taiba, active in Jammu	violence in Kashmir.
& Kashmir.	
Financial Action Task Force: inter-	A global body that checks if
governmental body fighting money	countries fight black money and
aundering and terror finance.	terror funds.
Global discussion series about	Conversations between
sustainable ocean management	countries about ocean
before UNOC meetings.	protection.
Informal reference to legally binding	Agreements to manage oceans
treaties for ocean sustainability.	responsibly.
Regulation of ocean areas beyond any	Managing seas that no country
national jurisdiction.	owns.
Philippine national day honoring a	A day in Philippines for a hero
local warrior who resisted Spanish	who fought foreign rule.
colonization.	
Legal case about sending a terror	India wants to try a 2008
suspect from the US to India for 26/11	Mumbai attack suspect living in
involvement.	the US.
Use of ocean-based trade and	Countries using sea resources
cooperation to strengthen diplomatic	and trade to improve foreign ties.
ties.	
Use of vaccines to enhance	Countries give or sell vaccines to
international relations.	win friends globally.
ill product some some some some some some some some	Inited Nations Ocean Conference 3 for protecting marine ecosystems.  Pakistan-based terror group linked to Lashkar-e-Taiba, active in Jammu a Kashmir.  Inancial Action Task Force: interpovernmental body fighting money aundering and terror finance.  Blobal discussion series about to ustainable ocean management ustainable ocean management ustainable ocean sustainability.  Informal reference to legally binding reaties for ocean sustainability.  Inegulation of ocean areas beyond any stational jurisdiction.  Inhilippine national day honoring a ocal warrior who resisted Spanish colonization.  Inegal case about sending a terror to uspect from the US to India for 26/11 involvement.  Is e of ocean-based trade and cooperation to strengthen diplomatic ies.  Is e of vaccines to enhance







Strategic Autonomy	A state's ability to make decisions	India decides for itself, without
	independently in foreign affairs.	pressure from powerful
		countries.
Belt and Road	China's infrastructure and trade	China building roads, ports, and
Initiative (BRI)	corridor initiative across continents.	rails worldwide to grow its reach.
G77 + China	Coalition of 134 developing nations at	A group of poorer nations
	the UN, joined by China for	speaking together at the UN.
	negotiations.	
Indo-Pacific	Policy for free, open, and secure	Plan to keep Indian and Pacific
Strategy	maritime region involving India and	Oceans peaceful and trade-
	Pacific nations.	friendly.
Securitisation of	Treating developmental issues like	Framing poverty and
Development	poverty as security threats.	underdevelopment as national
		security issues.
Multipolar World	International system with multiple	A world where no single country
Order	centers of power.	dominates – power is balanced.
Rules-Based	Global governance based on agreed	Countries follow rules in
International Order	laws and norms.	international dealings, not just
		power.
Strategic	Reducing economic reliance on a rival	Countries slowly stop depending
Decoupling	country.	on rivals for trade and tech.
QUAD Tech	QUAD nations creating shared rules for	India, US, Japan, and Australia
Standards Initiative	technology.	making joint tech rules.
Digital Public	India promoting its digital platforms	India shares its digital success
Infrastructure	(like UPI, Aadhaar) to other countries.	with the world.
Diplomacy		









### **Polity**

Keyword	Official Definition	Easy Explanation
Section 53(2), RPA	Allows a candidate to be declared	If no one contests against a
Act, 1951	elected unopposed.	candidate, they win
		automatically.
NOTA (None of the	An electoral option allowing voters to	You vote, but say you don't like
Above)	reject all candidates.	any candidate.
Polluter Pays	The one who pollutes must pay for	If you harm nature, you must fix
Principle	cleanup and damages.	it and pay fines.
Continuing	A judicial tool for ongoing monitoring	Court keeps watching until its
Mandamus	of a court order.	orders are followed fully.
Equality Act 2010	A UK law protecting individuals from	A law that says everyone must
(UK)	discrimination.	be treated fairly.
Gender Recognition	Allows transgender people in the UK to	A UK law to give trans people
Act 2004 (UK)	legally change their gender.	official rights.
Transgender	Indian law that protects the rights and	A law giving legal identity and
Persons Act, 2019	welfare of transgender persons.	protection to trans people.
Civil Society Audit	Evaluation of government schemes by	People check if government
	citizens or civil groups.	schemes work as promised.
RTI Dilution	Weakening of the Right to Information	Making it harder for people to
	Act to reduce public access to	get government records.
	information.	
Electoral Bond	A system of anonymous political	People can give money to
Scheme	donations in India.	parties without revealing names.
Judicial Overreach	When judiciary encroaches into	Courts start doing the job of the
	functions of executive or legislature.	government or lawmakers.









Article 329	Prevents courts from interfering in	Courts can't stop or change
	election matters while elections are	elections while they're
	underway.	happening.
Model Code of	A set of guidelines for political parties	Election rules that parties must
Conduct	during elections.	follow.
Doctrine of	Courts decide what religious practices	Judges decide what parts of a
Essentiality	are essential to a religion.	religion are legally protected.
Ninth Schedule	A part of the Constitution that protects	Some laws are shielded from
	certain laws from judicial review.	being challenged in court.
Separation of	Constitutional principle dividing roles	Each branch of government
Powers	of legislature, executive, and judiciary.	does its own job without
		interference.
Compulsory	Government allows use of a patent	Letting companies make drugs
Licensing	without owner's permission in public	without permission during need.
	interest.	
Ordinance Route	Executive makes temporary laws when	President or Governor issues a
	Parliament or Assembly is not in	law without waiting for
	session.	MPs/MLAs.
Delegated	Laws made by an authority other than	Ministers or departments make
Legislation	legislature under the legislature's	rules based on parent laws.
	powers.	

