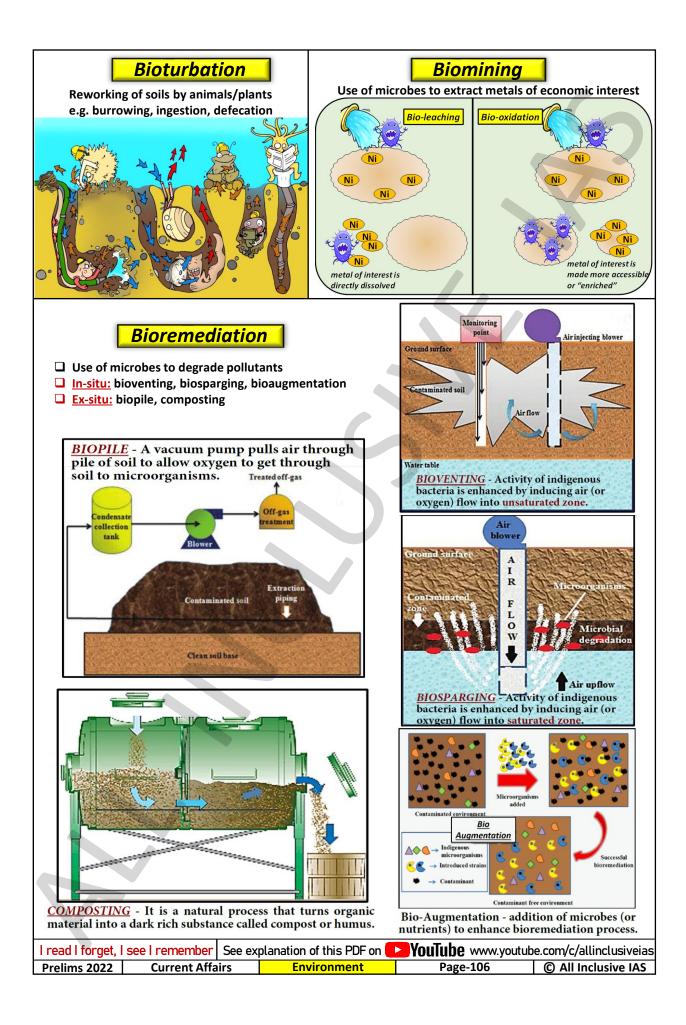


Initiatives at CoP-26 Glasgow	Related to? India					
Breakthrough Agenda	make clean technologies affordable in each emitting sector by 2030					
Zero-Emission Cars and Vans	all sales of new cars and vans to be zero emission in 2035/2040 Ye					
Declaration on Forest & Land Use	Stop deforestation and land degradation by 2030					
Forest, Agriculture and Commodity Trade (FACT)	sustainable trade o	of Forest/Agri commodities	No			
Beyond Oil and Gas Alliance	Initiative of Costa Rica and Denmark; Phase-out oil and gas					
Clydebank Declaration	Create zero emissions (green) shipping trade routes					
	<u>nergy</u> capacity by 20 ents <u>from renewabl</u> d <u>carbon emissions</u> <u>ensity</u> of the econo	030 <u>e</u> energy by 2030 by <u>one billion tonnes</u> from now to 2030 my by <u>45%</u> by 2030, over 2005 levels				
	Misce	llaneous				
Emissions GR: gap in emissions	predicted to be in 2	e global levels necessary to limit warming to 2/1.5 2030, and where they should be for 2/1.5 °C target te change that has already occurred				
Infrastructure For Resilient Island States: by India / CDRI / other countries at Glasgow for climate resilient infra in SIDS It contributes to SAMOA Pathway (SIDS Accelerated Modalities of Action) 		 Net-Zero Banking Alliance: Industry-led and convened by <u>UNEP</u> Banking element of: → Glasgow Financial Alliance for net zero → Race to Zero Aim is to decarbonise economy 				
SIDS: group of 58 Small Island Dev 38 of them are UN member s		Global Resilience Index: Assess resilience to climate risks by UN Office for DRR and others				
Atlantic Ocean 🔹 Arabian Sea 🗈	South Chine See 1	Powering Past Coal Alliance: (2017) □ aka "non-proliferation treaty" for fossil fuels □ to accelerate phase out of coal-fired power plants □ X India, China, Russia, etc				
Caribbean 28	4 Pocific 20	Clean Energy Ministerial:• Secretariat at International Energy Agency• India, China, Russia, Japan, US, UK• India will host the meeting in 2023				
 Cotton 2040 initiative: To make cotton production sustainable and climate resilient by NGO 'Forum for the Future' 		 Earthshot Prize (not by UN etc) every year between 2021-2030 by Royal Foundation (UK royals) Winner gets £1 million to continue environmental work 				
Forest Carbon Credit Stamps: Carbon market mechanism in China		First Movers Coalition: By USA and WEF at CoP 26 Coalition of companies to promote <u>tech</u> to achie				
E-Amrit Portal: by NITI Aayog for info on electric vehicle	S	net zero emissions (carbon neutrality) by 2050 Some companies from India also? Yes				
I read forget, see rememberPrelims 2022Current Affa		this PDF on YouTube www.youtube.com/c/allin onment Page-104 © All Inclu				

World Meteorological Organisation:1950; Geneva (Switzerland)Greenhouse Gas BulletinState of Global Climate reportState of Climate in Asia reportGlobal Atmosphere Watch ProgrammeSecretariat for Water & climate coalition		 India Meteorological Department: 1875, Delhi, Ministry of Earth Sciences (HQ moved: Calcutta → Shimla → Pune → Delhi) For weather and seismology It is one of the six regional specialized Meteorological Centers of WMO 						
	Direct Air (Direct Air (It is then n River Cities Al Platform fo It will help			Ter page-8) Island) is world's largest DAC plant, by Climeworks & Carbfix <u>Capture</u> (DAC) tech extracts CO ₂ directly from atmosphere mixed with water and <u>sequestered</u> into deep rocks <u>Illiance:</u> Ministry of Jal Shakti for river cities to discuss management of urban rivers. p in <u>river-sensitive planning</u> and development. Ince is <u>open to all river cities</u> of India.				
CRISP-M tool (not CRISPR tool) Climate Resilience Information System & Planning by Ministry of Rural Development (not by MoEFCC) to integrate climate info in GIS based watershed planning under MNREGA Pilot project launched in 7 districts								
 International Solar Alliance: UNGA has granted Observer Status to ISA ISA and UK have launched Green Grids Initiative (One Sun, One World, One Grid) to build a global green energy grid, primarily focusing on solar and wind energy. 		Specialized agencies of UNFAO, WHO, ILO, IMF, World Bank, IAEAPreparatory Commission for CTBTInt Organization for MigrationInt Tribunal for the Law of the SeaInt SeabedAuthorityInt TelecommunicationUN Educational, Scientific and Cultural Organization						
 Observer status of UN: Permanent office at UN HQ Given to non-member states (eg Holy See), organisations (eg ISA), specialised agencies 			Int Fund fo UN <u>Industr</u> World <u>Inte</u> World <u>Met</u>	Int Fund for Agricultural Development UN Industrial Development Organization World Intellectual Property Organization World Meteorological Organization Int Criminal Court				
		e explanation o			be.com/c/allinclusiveias			
Prelims 2022	Current Affairs	Env	ironment	Page-105	© All Inclusive IAS			



Prelims 2017

- In the context of solving pollution problems, what are the advantages of bioremediation technique ?
- 1. It is a technique for <u>cleaning up pollution</u> by enhancing the same <u>biodegradation</u> process that occurs in nature.
- 2. Any contaminant with <u>heavy metals</u> such as cadmium and lead can be <u>readily and completely</u> treated by bioremediation using microorganisms.
- **3.** <u>Genetic engineering</u> can be used to create microorganisms specifically designed for bioremediation. Select the correct answer using the code given below:

(a) 1 only (b) 2 and 3 only (c) 1 and 3 only

UNESCO 'eDNA' initiative:

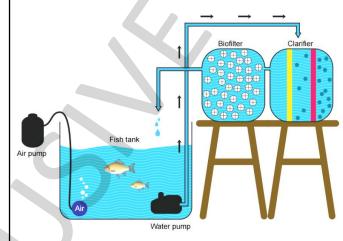
- to study biodiversity at UNESCO's marine World Heritage sites
- Environmental DNA: organism's DNA found in environment (from cellular material shed by organisms via skin, excrement, etc.
- Biomonitoring: changes in environment/biodiversity



Recirculating Aquaculture System:

(d) 1, 2 and 3

- □ For high density fish cultivation
- **Cleans the water and reduces ammonia toxicity**



Deep Sea Mining

Blue Economy:

- □ sustainable use of <u>ocean resources</u> for economic growth.
- □ Fisheries, aquaculture, marine tourism, renewable ocean

energy, seabed mining, off-shore oil and gas, etc.

Deep Ocean Mission:

- For many Blue Economy initiatives
- <u>MoES</u> is the nodal ministry

Samudrayan mission

- India's first manned ocean mission
- 'Matsya 6000' underwater vehicle

India's unique maritime position:

- 7,517 km long <u>coastline</u>
- more than 200 sea ports
- 23 lakh km² of <u>EEZ</u>

Concerns about deep sea mining:

- technologically challenging
- economic viability
- biodiversity loss

	NYSTEM Mining Support Vessel (MSV) ser & Lifting ystem (RALS) Seafloor Mining Tool (SMT)			
	THESE POLYMETALLIC NODULES CONTAINManganese92.6 MTNickel4.7Copper4.3			
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	<u>1982: Ocean Policy Statement</u> to develop technologies for ocean resources					
1987: India got 1.5 lakh km ² in cen		for <mark>nodule explo</mark>	ration			
Sagarmala project for port lead de Control	=					
Ocean Services Modelling		sources and Tes	haologu			
 Ocean Services, Modelling Regular updates on living 			pollution, early weather forecast,			
explore Polymetallic Nod	•		politiciti, early weather forecast,			
 <u>e-SANTA</u> online platform to conne 						
United Nations Convention on Law of S ✓ Also called as Law of the sea treaty.	<mark>ea (UNCLOS):</mark>	International Sea Bed Authority (ISA): ✓ To regulate mineral-related activities in				
\checkmark It resulted from 3 rd UN conferen	ce on Law of Se					
(1973-1982)		✓ establ	ished by <u>UNCLOS</u> in <u>1994</u> .			
✓ Signed in 1982; effective from 1994.			juarters: Kingston, <u>Jamaica</u> .			
 It defines the rights and duties of r environments. 	nations in maritim		pers: It has 168 members. not a member of ISA.			
environments.						
	Black Ca	rbon	Black carbon (soot) is increasing glacier melting in Third Pole			
Combustio	<u>n</u> : $C + O_2 = CO_2$					
	combustion:		Himalayas			
	does not react wit	h Oxygen				
	both black and br		and the state of t			
Black carbo	n.		Faller E S			
	temperature (e.g.)	engines)				
		- ·				
Brown carl	emperature (e.g. k	biomass)				
		5101110357				
<u>Common p</u>		- - t -	2			
 ✓ Short-lived climate pollutan ✓ Particulate/aerosol (not gas 			Green carbon: carbon stored in			
	global warming	,,	plant biomass and soil.			
	s light and heat		Blue carbon: carbons stored in			
Reduce:	s Albedo		coastal and marine ecosystems.			
		erosol:				
65. Consider the following statements		"aero-solution" suspension of fine solid particles or				
(CCAC) to Reduce Short Li		quid droplets in	all of gas			
Pollutants is a unique initi	<u> </u>	CCAC: HQ: Paris.				
group of countries.		Formed in 2012 by UNEP and 6 countries USA, Bangladesh, Canada, Ghana, Mexico, Sweden.				
2. The CCAC focuses on met	hane, black	India joined it in 2019				
carbon and hydrofluorocarbo		Short lived Climate Pollutants:				
Which of the statements given	above is/are re	remain in atmosphere for a much shorter period of				
correct ?		time than CO ₂ (hundreds of years) From CCAC website:				
(a) 1 only	ozone (hours-weeks)					
(b) 2 only		Black carbon (4-12 days)				
(c) Both 1 and 2		 ❖ Methane (12 years) ❖ HFCs (29 years) 				
(d) Neither Lean 9 Drolims 2017						
Black Carbon is second largest contributor to climate change after CO_2						
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