

DAILY pre PARE

Current affairs summary for prelims

30 January 2023

"Amrit Udyan"

✤ Context

> The iconic Mughal Gardens at the Rashtrapati Bhavan (President's House) in Delhi have been renamed.

The Gardens At The New Viceroy's House: Key Highlights: The collective identity of all the gardens at Rashtrapati In 1911, the British decided to shift the Indian capital from Bhavan will be 'Amrit Udyan'. Calcutta to Delhi. Earlier there were descriptive identities, now a new • About 4,000 acres of land was acquired to construct the Viceroy's House with Sir Edwin Lutyens being given the identity has been given to the garden. task of designing the building on Raisina Hill. History of Mughal Gardens in India: Lady Hardinge, the wife of the then Viceroy, urged The Mughals were known to appreciate gardens. In planners to create a Mughal-style garden. Babur Nama, Babur says that his favourite kind of She was inspired by the book Gardens of the Great garden is the Persian charbagh style (literally, four Mughals (1913) by Constance Villiers-Stuart as well as gardens). her visits to Mughal gardens in Lahore and Srinagar. • The charbagh structure was intended to create a The Famous Roses Of The Garden: representation of an earthly utopia jannat in which Though the layout of the garden was in place by 1917, the humans co-exist in perfect harmony with all elements of . nature. planting was taken up only in 1928-29. Director of horticulture William Mustoe, who planted the **Defined by its rectilinear layouts**, divided in four equal garden, is said to have introduced more than 250 different sections, these gardens can be found across lands previously ruled by the Mughals. varieties of hybrid roses. From the gardens surrounding Humanyun's Tomb in . They include Adora, Mrinalini, Taj Mahal, Eiffel Tower, Delhi to the Nishat Bagh in Srinagar, all are built in this Scentimental, Oklahoma (also called Black Rose), Black Lady, Blue Moon and Lady X. style – giving them the moniker of Mughal Gardens. A defining feature of these gardens is the use of There are also roses named after personalities: Mother waterways, often to demarcate the various quadrants of Teresa, Raja Ram Mohan Roy, Abraham Lincoln, Jawahar Lal Nehru, and Queen Elizabeth, Arjun and Bhim. the garden. These were not only crucial **Personal Touch By The Presidents:** to maintain the flora of the -C Rajagopalachari, the last Governor General of India, garden, but they also were himself ploughed the lands and dedicated a section of the an important part of its garden to foodgrains, it is known as Dalikhana. aesthetic. Fountains were . President R Venkatraman added a cactus garden and often built, symbolising the APJ Abdul Kalam added many theme-based gardens: "cycle of life. from the musical garden to the spiritual garden.

The Medical Termination of Pregnancy (Amendment) Act, 2021

Context

Recently, In separate orders, the Delhi and Bombay HCs have allowed exemptions beyond what is laid down in Medical Termination of Pregnancy (Amendment) Act, 2021.

Key Highlights:	Jan. 20 Bombay HC Judgment
 Justice Swarana Kanta Sharma of Delhi High 	h Court has o It allowed the termination of a 33-week-old
allowed a minor who had been raped to term	inate her 25- pregnancy on account of severe abnormalities in
week pregnancy.	the foetus.
 He framed guidelines for officers investigating of 	ases of rape o The apex court's 2022 judgment was build on the

& sexual assault where the pregnancy exceeds 24 weeks.

- Supreme Court's 2022 Judgment
 - SC expanded the scope of reproductive rights and bodily autonomy under the MTP Act, 1971 to groups such as unmarried women, transgenders, and genderqueer groups.
 - Rights available to married women under Medical Termination of Pregnancy Act, 1971, to abort a foetus will also be available to unmarried ones.
 - The distinction between married & unmarried women under the abortion laws is "artificial & constitutionally unsustainable" & perpetuates the stereotype that only married woman are sexually active.

aspects of a woman's "reproductive autonomy", "reproductive choice", and "right to dignity".

Medical Termination of Pregnancy (Amendment)

<u>Act, 2021</u>

- The MTP (Amendment) Act, 2021, had introduced a key change in Section 3 by extending the upper limit for termination of pregnancy from 20 to 24 weeks.
 - For pregnancies up to 20 weeks, termination is allowed under the opinion of one registered medical practitioner.
- For pregnancies between 20-24 weeks, requires the opinion of two registered medical practitioners in this case.

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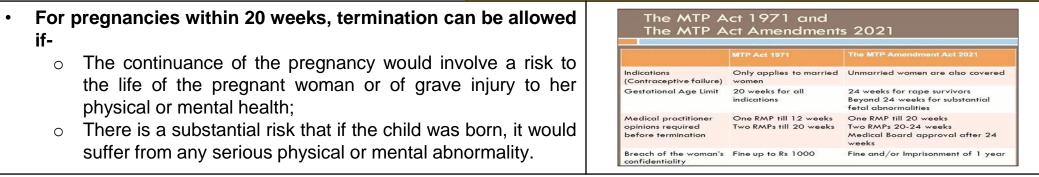




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Methane: A Big Problem:

30 January 2023



Cows and Sheep Contribute to Climate Change

✤ <u>Con</u>text

Recently, Microsoft co-founder Bill Gates invested in an Australian climate technology start-up that aims to curtail the \geq methane emissions of cow burps.

<u>Ke</u>	y Hi	<u>ghlights</u>	<u>s:</u>
_	The		

•	The start-up, Rumin8, has received funding worth \$12 million from	•	Methane is one of the main drivers of
	Breakthrough Energy Ventures, which Gates created in 2015.		climate change.
•	Rumin8 is developing a variety of dietary supplements to feed to	•	It is responsible for 30 per cent of the
	cows in a bid to reduce the amount of methane they emit into the		warming since preindustrial times,
	atmosphere.		second only to carbon dioxide.
•	The supplement includes red seaweed, which is believed to drastically	•	Over a 20-year period, methane is 80
	cut methane output in cows.		times more potent at warming than carbon
Pr	oduction of Methane from Cows & Other Animal:		dioxide.
•	Ruminant species are hooved grazing or browsing herbivores that chew	•	It's also the primary contributor to the
	cud.		formation of ground-level ozone (bad
•	Ruminants such as cows, sheep, goats, and buffaloes have a special		ozone).
	type of digestive system that allows them to break down and digest	•	Carbon dioxide remains in the atmosphere
	food that non-ruminant species would be unable to digest.		for much longer than methane.
•	Stomachs of ruminant animals have four compartments, one of which,	•	Methane is roughly 25 times more
	the rumen, helps them to store partially digested food and let it ferment.		powerful at trapping heat in the
•	This partially digested and fermented food is regurgitated by the animals		atmosphere.
	who chew through it again and finish the digestive process.	•	It is estimated that the ruminant digestive
•	However, as grass and other vegetation ferments in the rumen, it		system is responsible for 27 per cent of
	generates methane, a potent greenhouse gas.		all methane emissions from human
•	Ruminant animals such as cows and sheep release this methane mainly		activity.

Ruminant animals such as cows and sheep release this methane mainly through burping.

News in Between the Lines

Context

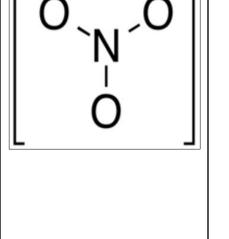
Key highlights:

Recently, a new study has found that parts of India and China are hotspots for the night-time production of nitrate radicals.

Nitrate Radicals



- Cities in Europe and the United States have experienced a decline in the nocturnal production of nitrate radicals.



- The process of nocturnal oxidation driven by nitrate radicals is an important but poorly understood process in atmospheric chemistry.
- Nitrate Radical
 - Trioxidonitrogenor nitrate radical is an oxide of nitrogen with formula NO3.
 - It is consisting of three oxygen atoms covalently bound to a nitrogen atom.
 - This highly unstable blue compound has not been isolated in pure form, but can be generated and observed as a short-lived component of gas, liquid, or solid systems.

Consequence

- Nitrate radicals will oxidise gas pollutants such as volatile organic compounds(VOCs), which will then generate ozone and secondary organic aerosol.
- So this deteriorates air quality.
- Nitrate radicals can increase the amount of deadly ozone and PM2.5 particulate matter in the atmosphere.

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Cheetah To	* <u>Context</u>
India From	> Inter-Governmental Agreement to re-introduce cheetah to India from South Africa
South Africa	concluded.
	 Key Highlights: In terms of the agreement, an initial batch of 12 cheetahs is to be flown from South Africa to India during February 2023. The cats will join eight cheetah introduced to India from Namibia during 2022. It would aim to achieve a number of ecological objectives, including re- establishing the function role of cheetah within their historical range in India and improving the enhancing the livelihood options and economies of the local communities. Following the import of the 12 cheetah in February, the plan is to translocate a further 12 annually for the next eight to 10 years. IUCN Conservation Status- Critically Endangered.
Noble's Helen (Papilio Noblei)	 Context Recently, butterfly enthusiasts recorded the "extremely rare" Noble's Helen from three locations in the Namdapha National Park of Arunachal Pradesh. Key Highlights: Scientific Name- Papilio noblei. The species is known to be very rare in occurrence in its previously known ranges. The Noble's Helen is closest to the Papilio antonio from the Philippines. It is characterised by a much large dorsal white spot. Papilio noblei sports a consistent white spot and has a complete row of red lunules on the underside of the hind wing and discal white areas on the upper side of the hind wing. Distribution
	 Thailand. Apart from Thailand, this species of swallowtail butterfly has been reported from Myanmar, Yunnan and Hubai regions of China, Laos, Cambodia and Vietnam. Significance of Butterflies Butterflies are considered vital indicators representing the state of biodiversity and key ecosystem functions.
Lucy Mission	 Context Recently, NASA announced that it is adding a new target for the Lucy mission as the spacecraft goes on its more than 6-billion-kilometre-long journey to study the Jupiter trojan
	 asteroids. Key Highlights: The new target is a small main-belt asteroid. Lucy will get an up-close view of it on November 1, 2023, to conduct an engineering test of the spacecraft's asteroid-tracking navigation system. The asteroid is closer in size to the asteroids visited by the DART mission and the OSIRIS-REx mission than the previously visited main belt asteroids. About Lucy Mission: The Lucy Mission refers to a NASA mission to study several Trojan asteroids near Jupiter. The mission was named after the famous fossil, Australopithecus afarensis (nicknamed "Lucy"), as the Trojans are ancient fossils of the Solar System. The mission was launched in 2021. Its main objectives are to study the physical and chemical properties of the Trojans, determine the origin and evolution of the Jovian system, and search for signs of life.
XR Startup Program	 Context MeitY, Meta Shortlist 120 Startups under XR Startup Program. Key Highlights: The initiative, which aims to discover, nurture and accelerate XR-related startups in the country, has two pillar.

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	 The Accelerator Programme. The Grand Challenge. Of the startups selected under the accelerator, more than 30% are from tier 2 and tier 3 cities. 20% of the selected cohort is led by women. Backed by Meta's \$50 Mn XR Programs and Research Fund, the accelerator will support 40 early-stage XR startups with a grant of INR 20 Lakhs each. IT will encourage early-stage innovators in sectors like Education, Learning and Skills, Healthcare, Gaming and Entertainment, Agritech & Climate Action and Tourism & Sustainability.
<section-header></section-header>	 Context Union Minister for Health and Family Welfare virtually inaugurates National Summit on Quality of Biologicals. Key Highlights: The National Summit will act as a platform to bring together stakeholders, regulatory authorities & academia for interaction on various aspects of quality assurance of biologicals. Biological therapeutics, also referred to as Biologicals, are those class of medicines which are grown and then purified from large-scale cell cultures of bacteria or yeast, or plant or animal cells. Biologicals are a diverse group of medicines which includes vaccines, growth factors, immune modulators, monoclonal antibodies, as well as products derived from human blood and plasma. What distinguishes biologicals from other medicines is that these are generally proteins purified from living culture systems or from blood, whereas other medicines are considered as 'small molecules' and are either made synthetically or purified from plants.
National Logistic Portal (marine)	 Context Union Minister for Ports, Shipping and Waterways and Ayush inaugurated The National Logistics Portal (marine) in New Delhi. Key Highlights: The National Logistic Portal (marine) (NLP) is a project of national importance, as envisaged by the Ministry of Ports Shipping Waterways and the Ministry of Commerce & Industry. It is a one-stop platform aimed at connecting all the stakeholders of the logistics community using IT, to improve efficiency and transparency by reducing costs and time delays and achieving easier, faster, and more competitive offerings of services, to promote the growth of the logistics sector and thereby improve trade. NLP will be a single window for all trade processes of the logistic service coverage. NLP Is a one stop marketplace where all logistic stakeholders are integrated for easier, speedier & competitive services thereby promoting trade and growth.

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