

DAILY pro PARE Current affairs summary for prelims

17 January 2023

Mahadayi Water Issue

✤ Context

Opposition members tried to disrupt Governor's address to the Goa Assembly demanding a statement from him on the Mahadayi river water diversion issue.

Exoplanets

- Context
 - Recently, The National Aeronautics and Space Administration (NASA) announced that the James Webb Space Telescope has discovered its first new exoplanet.

Key Highlights:

- Researchers have labelled the planet as LHS 475 b, and it's roughly the same size as Earth.
- It is located just **41 light-years away.**
- The planet orbits very close to a red dwarf star and completes a full orbit in just two days.

Exoplanets

- Exoplanets are planets that orbit other stars and are beyond our solar system.
 According to NASA, to date, more than 5,000 exoplanets have been discovered.
 Scientists believe that there are more planets than stars as each star has at least one planet orbiting it.
 Exoplanets come in a host of different sizes.
 They can be gas giants bigger than Jupiter or as small and rocky as Earth.
 They are also known to have different kinds of temperatures boiling hot to freezing cold.
 Significance of Studying Exoplanets our understanding of other solar systems.
- It also helps us piece together information about our own planetary system and origin.
- To find out the distance between an exoplanet and its host star.
 - This helps scientists determine if a discovered world is habitable or not.

Red Dwarf Star

Red dwarf stars are the most common and smallest in the universe.
As they don't radiate much light, it's very tough to detect them with the naked eye from Earth.
However, as red dwarfs are dimmer than other stars, it is easier to find exoplanets that surround them.
Therefore, red dwarfs are a popular target for planet hunting.

James Webb Space Telescope

- The telescope has been developed under an international partnership between NASA, the European Space Agency (ESA) and the Canadian Space Agency (CSA).
- It was launched aboard a rocket on December 25, 2021.

Face to Face Centres

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 It headed to an outpost 1.5 million kilometers (9,30,000 miles) from Earth. 	• The telescope will study the atmospheres of a wide diversity of exoplanets.
 It is currently at a point in space known as the Sun-Earth L2 Lagrange point. L2 is approximately 1.5 million km beyond Earth's orbit around the Sun. It is a successor of the Hubble Telescope. 	,

Antimicrobial Resistance (AMR)

✤ <u>Context</u>

Experts have been warning for decades that the threat of antibiotic resistance could take us back in time to when even simple infections were deadly.

Key Highlights:

- A study in 2019 found more than 1 million people a year died from infections linked to microbes that are resistant to antibiotics more than those who died due to malaria or with HIV/AIDS.
- Experts predict that if the problem remains unsolved, 10 million people could die as a result by 2050.

About Antimicrobial Resistance:

- Antimicrobials including antibiotics, antivirals, antifungals and antiparasitics are medicines used to prevent and treat infections in humans, animals & plants.
- Antimicrobial Resistance (AMR) occurs when bacteria, viruses, fungi & parasites change over time and no longer respond to medicines making infections harder to treat and increasing the risk of disease spread, severe illness and death.
 - As a result of drug resistance, antibiotics and other antimicrobial medicines become ineffective & infections become increasingly difficult or impossible to treat.

Mechanism of Causing Antibiotic Resistance

- Antibiotics work by **binding to a specific target protein on a bacteria,** then entering to kill it from the inside.
- **Penicillin**, for example, weakens the bacterial cell wall, causing the cell to disintegrate.
- The most common ways bacteria evade antibiotics come from **mutations** that allow them to stop drugs from binding to bacteria.
- It's like the bacteria changed the locks so the antibiotic key no longer opens the cell door.



News in Between the Lines

✤ Context

National Museum of Natural History, a subordinate office of Ministry of Environment, Forest and Climate Change organized an Online Interactive Session on Pariksha Pe Charcha in line of Mission LiFE.

✤ <u>About Mission LiFE:</u>

- At the 2021 UN Climate Change Conference (UNFCCC COP26), Prime Minister of India announced Mission LiFE, to bring individual behaviour at the forefront of the global climate action narrative.
- LiFE envisions replacing the prevalent 'use-and-dispose' economy, governed by mindless and destructive consumption with a circular economy, which would be defined by mindful and deliberate utilization.



Mission LiFE

- The Mission intends to nudge individuals to undertake simple acts in their daily lives that can contribute significantly to climate change when embraced across the world.
- The Mission plans to create and nurture a global network of individuals, namely 'Pro-Planet People' (P3), to adopt and promote environmentally friendly lifestyles.

* Context

First Evidence Of Solitary Waves Near

Mars

- First evidence of solitary waves near Mars may decode the mystery behind ion loss in the planet.
- * Key Highlights:
 - For the first time, a research team from the **Indian Institute of Geomagnetism** (IIG), an autonomous institute of the Department of Science and Technology (DST) has identified and reported the **solitary waves in the Martian magnetosphere**.

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	 space These magn wave- The n of sol Unlike 	ecraft of NASA. e solitary waves are distinct etosphere that control particle en particle interactions. nagnetosphere is weak but highly dy ar winds with the Martian atmosph e Earth, the planet Mars do not have	Atmosphere and Volatile Evolution (MAVEN) electric field fluctuations in the Martian ergization, plasma loss, and transport through mamic and formed due to the direct interaction here. any intrinsic magnetic field. This allows the high- e Mars atmosphere, like an obstacle in flow.
<section-header></section-header>	VARU Key Highl While inauge bilater This e Chen helico Units enhar doma	INA commenced on the Western Sea ights: the bilateral exercise between t urated as 'VARUNA' in 2001 and have ral relationship. edition will witness participation of in nai, guided missile frigate INS Teg, pters and MiG29K fighter aircraft. of both navies will endeavor to be nee their inter-operability to undert	Exercise between India and France – Exercise aboard. he two navies was initiated in 1993, it was as become a hallmark of India – France strategic digenous guided missile stealth destroyer INS maritime patrol aircraft P-8I and Dornie r, integral none their war-fighting skills in maritime theatre, ake multi-discipline operations in the maritime as an integrated force to promote peace,
<section-header></section-header>	 place Bullock C The b Althouincide It was Supre Bulloc Maha The Figain canima Other 	cently, a shocking video surfaced online, showing an illegal bullock cart ce at Mira-Bhayandar Flyover in Mumbai. <u>Cart Race:</u> bullock cart riders were seen assaulting the animals. hough Bullock cart racing is a traditional sport, which has been made leg ident has imposed questions on allowance of animal cruelty. vas previously banned by the Bombay High Court (HC), but the ban was preme Court (SC) on December 2021. lock Cart Race is a cultural activity and popular amongst farming co harashtra and Pune districts. e Prevention of Cruelty to Animals Act, 1960, is to prevent the infliction of u n or suffering on animals and to amend the laws relating to the prevention mals. ter Animal Sports.	
	JalliKattu	Bull-taming sport	Played in Tamil Nadu as part of the Pongal harvest festival.

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		narvest festival.
Cock-fights	Fight between two roosters bred	It is common in the state of Andhra Pradesh , Jharkhand , Tamil Nadu and Kerala. not indigenous to India
Kambala	Traditional buffalo race	coastal Karnataka (Udupi & Dakshina Kannada)
Camel Race	Race of Camels	Rajasthan
Dog Fights	It is a blood sport that pits two dogs kept in cages without food for days, against one another for entertainment.	Delhi
Bulbul fights	Often bulbuls are fed intoxicants to make them aggressive.	Assam

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<text></text>	 Context Recently, A new study found that noise generated by human activity makes it harder for dolphins to communicate and coordinate with each other. Key Highlights:
<section-header></section-header>	 Context Researchers from the Center for Astrophysics (CfA) Harvard & Smithsonian have generated a 3D magnetic map of the cavity called Local Bubble. Key Highlights: The Local Bubble is a 1,000-light-year-wide cavity or a superbubble. Other superbubbles also exist in the Milky Way. Space is full of these superbubbles that trigger the formation of new stars and planets and influence the overall shapes of galaxies. Star-forming regions occur along the bubble's surface. Local Bubble is thought to have originated from supernovae roughly 14 million years ago. Supernovae explosions release tremendous amounts of radio waves and X-rays and also cosmic rays. Mechanisms powering the formation and expansion of the Local Bubble are not well-understood.
Thiruvalluvar Day	 Context The Prime Minister, has paid homage to Thiruvalluvar on Thiruvalluvar Day and recalled his noble thoughts. About Thiruvalluvar Day The Government of Tamil Nadu celebrates the 15th (16th on leap years) of January as Thiruvalluvar Day in the honour of the poet Thiruvalluvar, as part of the Pongal celebrations. Thiruvalluvar was a celebrated Tamil poet and philosopher who lived in the 4th century BCE. Commonly known as Valluvar, he is best known for authoring Thirukkural, a collection of couplets on ethics, political and economic matters, and love.



- The text is considered as one of the finest works of the Tamil literature.
- Thiruvalluvar was chosen as the **Tamil language's greatest historical figure** after Tamil scholars unanimously agreed to the proposal.
- As a result, a resolution to celebrate a day known as "Thiruvalluvar Day" for him by all Tamils was passed on January 17th 1935.

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04

MCQ Quiz

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