

DAILY pre PARE

Current affairs summary for prelims

22 June, 2022

Atlantification

✤ Context

According to a recently published study, parts of the Arctic region near Norway are warming at as much as seven times the rate of warming in the rest of the world.

Key Highlights

- > The study was published by the Norwegian Meteorological Institute in the journal Scientific Reports.
- It said the region around the northern Barents Sea has been warming two to two-and-a-half times the average warming of the Arctic region and five to seven times the warming in the rest of the world.

About Barents Sea

The Barents Sea is a marginal sea of the Arctic Ocean.



bounded It is by Norway, Russia, and the islands of Novaya Zemlya, Spitsbergen, and Franz Josef Land It is divided between

Norwegian and Russian territorial waters.

Atlantification

Scientists have uncovered "hotspots" where some parts of the Barents Sea are starting to more closely resemble the Atlantic.



Process of Atlantification:

- Streams of warmer water from the Atlantic Ocean flow into the Arctic at the Barents Sea.
- This warmer, saltier Atlantic water is usually fairly deep under the more buoyant Arctic water at the surface.
- Lately, however, the Atlantic water has been creeping up.
- That heat in the Atlantic water is helping to keep ice from forming and melting existing sea ice from below.
- This process is called "Atlantification".
- The ice is now getting hit both from the top by a warming atmosphere and at the bottom by a warming ocean.
- **Reasons:**
 - The Arctic sea ice extent and thickness have been dropping for decades as **global temperatures rise**.
 - As the Arctic loses ice and the ocean absorbs more solar radiation, global warming is amplified.
- **Consequences:**
 - It affects ocean circulation, weather patterns and Arctic ecosystems spanning the food chain, from phytoplankton all the way to top predators.

NIPUN Project

Context

- The Ministry of Housing and Urban Affairs has launched the National Initiative for Promoting Upskilling of \geq Nirman workers (NIPUN) project.
- The project has been launched under **Deendayal** Antyodaya Yojana-National Urban Livelihoods Mission.
- Objective
- The aim is to :

✤ Implementation

The National Skill Development Corporation (NSDC), • the nodal agency under the Ministry of Skill Development & Entrepreneurship (MSDE), will be the Implementation Partner for the project NIPUN.

- Provide skill training, both fresh and upskilling,to **1,00,000 construction workers**.
- Provide them with work opportunities in foreign countries.

Other Benefits

- Provide trainees with 'Kaushal Bima', a three-year accidental insurance with coverage of ₹2 lakhs.
- Digital skills such as cashless transactions and the BHIM app.
- Orientation about entrepreneurship.
- Facilities under Employee Provident Fund and Building and Other Construction Workers Act.

- The project implementation is divided into three parts :
 - Training through recognition of prior learning (RPL) at construction sites.
 - Training through fresh skilling.
 - International placement through industries, builders and contractors.
- Onsite skill training will be provided to around 80,000 construction workers through industry associations under the **RPL certification**, co-branded with MoHUA.
- **14,000 candidates** will receive fresh skilling through plumbing and infrastructure Sector Skill Council (SSC) in trades having promising placement potentials.

Face to Face Centres

DELHI MUKHERJEE NAGAR: 9205274741, 42 | LAXMI NAGAR : 9205212500, 9205962002 | RAJENDRA NAGAR: 9205274743 | UTTAR PRADESH PRAYAGRAJ: 0532-2260189, 8853467068 | LUCKNOW (ALIGANJ): 0522-4025825, 9506256789 | LUCKNOW (GOMTI NAGAR): 7234000501, 7234000502 | GREATER NOIDA: 9205336037, 38 | KANPUR: 7887003962, 7897003962 | GORAKHPUR : 7080847474, 9161947474 | ODISHA BHUBANESWAR: 9818244644/7656949029

[]





DAILY pro PARE Current affairs summary for prelims

22 June, 2022

Nouvo	in De	twoon	tha	linaa
news		elween	une	LINES

Context

Experts at the All India Institute of Medical Sciences (AIIMS-Delhi) have developed an anti-gravity bodysuit, in collaboration with NIT-Jalandher, that will allow astronauts to perform yoga in space.

* Key Highlights

- AIIMS said this is India's first bodysuit for astronauts and that it will increase their weight by more than 70% in space to prevent them from floating.
- AIIMS also informed that no country in the world has this unique kind of body suit for astronauts which has the facility of grounding and loading.
- The anti-gravity gear will help astronauts to strengthen antigravity musculature and will also prevent atrophy.

Microgravity and Atrophy

- The space journey of astronauts adversely affects the functioning of muscles and bones as they don't have to support the body's mass (weight on Earth).
 - Without Earth-like exercise, astronauts would experience bone and muscle loss or atrophy (*a health condition in which the size of the body part decreases*) during their stays in space.
 - Bone and muscle atrophy also occurs from normal ageing, sedentary lifestyles and illnesses.

✤ Context

According to data provided by BMC, Mumbai has witnessed an over six-fold rise in monthly deaths related to heart attack in the Jan-July 2021 compared to previous years.

* Key Highlights

- Between January and June 2021, a total of 17,880 succumbed to heart attacks in the city.
- According to experts there may be three major reasons for the surge in deaths related to heart attack:
 - Possibility of development of thrombosis among recovered Covid-19 patients,
 - Delay in diagnosis of patients during the pandemic.
 - Better recording of data.

✤ <u>About Thrombosis</u>

- A blood clot that forms and stays in a blood vessel is called a thrombus.
- There are two main types of thrombosis.
 - Arterial thrombosis refers to a blood clot that blocks an artery.
 - Venous thrombosis, also known as venous thromboembolism or VTE, refers to a blood clot in a vein.

COVID & Thrombosis

Anti-gravity Suit



Thrombosis

- In August 2021, the **Lancet report**ed that the risk of a first heart attack increased by three to eight times in the week after a Covid-19 diagnosis.
- Virus interacts with the ACE2 receptors in the host body. So, all the organs with a predominance of ACE2 receptors, including the endothelium, get affected.
- The **endothelium** is the inner lining of all vascular structures in the body, which includes the arterial and venous system.
- Covid-19 typically causes inflammation of the endothelium, which is coined as Covid endotheliitis.
- This endotheliitis is the cause of increased thrombotic events, thereby leading to increase in cardiac mortality and morbidity.

Face to Face Centres

DELHI MUKHERJEE NAGAR: 9205274741, 42 | **LAXMI NAGAR :** 9205212500, 9205962002 | **RAJENDRA NAGAR**: 9205274743 | **UTTAR PRADESH PRAYAGRAJ**: 0532-2260189, 8853467068 | **LUCKNOW** (ALIGANJ): 0522-4025825, 9506256789 | **LUCKNOW** (GOMTI NAGAR): 7234000501, 7234000502 | **GREATER NOIDA**: 9205336037, 38 | **KANPUR**: 7887003962, 7897003962 | **GORAKHPUR** : 7080847474, 9161947474 | **ODISHA BHUBANESWAR**: 9818244644/7656949029



DAILY pre PARE

Current affairs summary for prelims

22 June 2022

<section-header></section-header>	 Context Recently, the Indian Rupee hit an all-time low of 78.29 to the dollar. Causes Exit of foreign portfolio investors in the wake of central banks of different countries raising interest rates. Rising cost of international crude oil prices. Strong dollar. Impact on Indian Economy
<image/>	 Context Many people were recently killed by lightning in Bihar. What is Lightning? It is a rapid and massive discharge of electricity in the atmosphere. 15-20% of the discharge is directed towards the earth. While earth is a good conductor of electricity, it is electrically neutral. However, during building up of charge in clouds, with respect to the middle layers of the clouds, it becomes positively charged. How do Charges Develop Inside the Cloud? Discharge is created in giant moisture bearing clouds that are 10-12 km tall. The base of these clouds lie within 1-2 km of the Earth's surface. Temperature in the top layer of these clouds are in the range of -35 to -45 degree celsius. Water droplets change into ice at such temperatures. They continue to move up, gathering mass until they are so heavy that they start to fall on earth. This leads to a system in which simultaneously smaller ice crystals are moving up and bigger crystals are coming down. This led to the collisions of the crystals which trigger the release of electrons. Free moving electrons cause more release of more electrons through collision and thus a chain reaction occurs. As a result, the top layer gets positively charged, while the middle layer gets negatively charged.

most trusted since 2003

The electric potential difference is to the order of **1 BN to 10 BN volts**. In very little time, a massive current of the order of 1 lakh to 10 lakh amperes flows



warning system has been set up.

03

Face to Face Centres

DELHI MUKHERJEE NAGAR: 9205274741, 42 | LAXMI NAGAR : 9205212500, 9205962002 | RAJENDRA NAGAR: 9205274743 | UTTAR PRADESH PRAYAGRAJ: 0532-2260189, 8853467068 | LUCKNOW (ALIGANJ): 0522-4025825, 9506256789 | LUCKNOW (GOMTI NAGAR): 7234000501, 7234000502 | GREATER NOIDA: 9205336037, 38 | KANPUR: 7887003962, 7897003962 | GORAKHPUR : 7080847474, 9161947474 | ODISHA BHUBANESWAR: 9818244644/7656949029



DAILY pre PARE

Current affairs summary for prelims

22 June, 2022

	*	Context
		Recently, a Google engineer claimed that LaMDA had become sentient because
Language Model for		its answers allegedly hint that it understands what it is.
Dialogue Applications	*	About LaMDA
Dialogue Applications		LaMDA is a machine-learning language model created by Google as a chatbot
(LaMDA)		that is supposed to mimic humans in conversation .
		 Like BERT, GPT-3 and other language models, LaMDA is built on
		 Transformer, a neural network architecture that Google invented and open-sourced in 2017. A neural network is an AI tech that attempts to mimic the web of neurons.
		in the brain to learn and behave like humans.
		• This architecture produces a model that can be trained to read many words
		while paying attention to how those words relate to one another and then predict what words it will think will come next
<u>E</u>		 But what makes LaMDA different is that it was trained on dialogue, unlike most
		models. LaMDA is designed to be able to engage in free-flowing
		conversations about a virtually endless number of topics.
	••	Context
	•	> The Strawberry Supermoon was seen worldwide in different time zones from
		Sunday evening to Wednesday morning i e 19 th June to 22 nd June 2022
	*	Key Highlights
		• Historically, the last full moon of June is called the "Strawberry Moon"
Strawberry Supermoon		because its appearance coincides with the ripening of June bearing
		strawberries that are traditionally harvested by Native American tribes of
		northeastern US around mid-June.
		 However, since in some places the enlarged moon appears red or pink in color, its association with the strawberry became even more popular.
		• The full moon is known by different names across the world including the
		Strawberry Supermoon, the Mead, Honey, or Rose Moon.
	*	About Supermoon
		 The term supermoon was coined by astrologer Richard Nolle in 1979.
		• A supermoon appears when the Moon's orbit is closest (perigee) to Earth at
		the same time as the Moon is full.
		• With the Moon orbiting the Earth in an elliptical path, the farthest point in this
		ellipse is called the apogee and is about 4,05,500 kilometers) from Earth on
		 When a full moon appears at perigee it is slightly brighter and larger than a
		regular full moon and that's where we get a "supermoon."
	**	Context
		The country's first-ever Balika Panchavat in Kutch aims to promote the social
Balika Panchayat		development of girls and ensure the active participation of girls in politics.
	*	Background
📓 🐼 લાલકા પંચાયલ 💽 🌆		Balika Panchayat is a panchayat of girls between the age of 10 and 21 years.



Daily Current Affairs

most trusted since 2003

- The Panchayat has started in Kunaria, Maska, Motagua, and Vadsar villages of the Kutch district.
- Objectives *
 - The initiative aims to promote the **social and political development** of the girls and ensure their active participation in politics.
 - This initiative has been taken by the Women and Child Development Welfare Department of the Gujarat Government under the 'Beti Bachao Beti Padhao' campaign.
 - It also seeks to remove evil practices like child marriage and dowry system from society and decision-making process in Panchayat.
 - The Women and Child Development Ministry is planning to start a girl panchayat across India. **Daily MCQ Quiz Daily Pre PARE**

Face to Face Centres

DELHI MUKHERJEE NAGAR: 9205274741, 42 | LAXMI NAGAR : 9205212500, 9205962002 | RAJENDRA NAGAR: 9205274743 | UTTAR PRADESH PRAYAGRAJ: 0532-2260189, 8853467068 | LUCKNOW (ALIGANJ): 0522-4025825, 9506256789 | LUCKNOW (GOMTI NAGAR): 7234000501, 7234000502 | GREATER NOIDA: 9205336037, 38 | KANPUR: 7887003962, 7897003962 | GORAKHPUR : 7080847474, 9161947474 | ODISHA BHUBANESWAR: 9818244644/7656949029

04

