KSG: NEWSPAPER CRUX

5TH MARCH **2022**

NEWSPAPER HIGHLIGHT

team of scientists from the Botanical Survey of India (BSI) have discovered a new gin berry species from the Kanyakumari Wildlife Sanctuary in Tamil Nadu. The species, Glycosmis albicarpa, with a distinct large white fruit, is endemic to the southern Western Ghats. The species belongs to the Orange family Rutaceae. The findings have been published in the latest issue of the Nordic Journal of Botany published from Sweden. Many of the related plants of these taxonomic groups are being utilised for their medicinal values and food. Most commonly related species of these plants are collected from the wild, mainly for local use as food and medicine.

India abstained on a vote at the UN Human Rights Council in Geneva as the Council decided to set up an international commission of enquiry Russia's into actions in Ukraine. The resolution, the strongest one to be adopted by the "strongly system yet, condemned" aggression by Russia, and said it was "gravely concerned" about reports of rights violations by Russian forces, civilian casualties and the forced displacement of 6,60,000 refugees due to Russian "bombing and shelling". India was among 13 countries of the 47member council elected from UN members that abstained from the resolution.

Implementation of the proposed data protection bill, as recommended by a will **Parliamentary** panel, degrade India's significantly business environment and reduce foreign investment inflows, a dozen global industry bodies have said in a joint letter to the government. The industry associations have sought wider consultations with stakeholders before the bill is introduced in Parliament. industry bodies represent thousands of companies and technology majors like Google and Dell.

Services sector activity in India picked up marginally in February on the back of better demand and the retreat of the pandemic, but the rate of expansion was the second-slowest since last July and was subdued by historical standards, a monthly survey showed. The seasonally adjusted IHS Markit India Services Business Activity Index saw a moderate rise to 51.8 in February, from 51.5 in January.

India has urged both Russia and

6G

- **1.**Minister for Communication said that the 6G development has already started. That will be seen somewhere in the time frame 2024 or 2023-end. Wireless generations (G) are standardized by the International Telecommunication Union (ITU) and occur every 10 years or so. They're generally marked by a break in the "air interface," meaning a change in transmission or encoding.
- **2.**This is done so previous-generation devices can't be upgraded to the new generation. 6G is the sixth generation of wireless communication and networking technology. It is a mostly theoretical concept. It is built upon the infrastructure of 5G, and will accomplish more than 5G in terms of adoption, reduction of cost, and better service. While 5G provided less than 1ms latency, 6G provides less than 0.1ms latency.
- **3.**6G will operate on the mid bands (7 20 GHz) for places that are crowded, low bands (460 - 694 MHz) for long-distance coverage, and use sub-THz for peak data rates in the short range of up to 100 Gbps. 6G will also used significantly advanced network devices, including MIMO (multiple input, multiple output) antennaes. While 4G uses 2x2 MIMO and 4x4MIMO, and 5G uses around 200 antenna elements, 6G may support upto 1024 antenna elements. 4.Characteristics -Higher speed than 5G, horizontal foundation of various industries in a society, low latency (10-100 micro seconds), etc 6G will be a collection of the heterogeneous networks, like cellular networks covering large outdoor space; WiFi for indoor or low-speed outdoor use, satellite networks such as low earth orbit constellation. It is part of "edge computing," which moves network management away from centralized clouds towards more localized devices, making everything work way smoother and reducing response times.
- **5.**Benefits The important areas that will benefit from this technology are the likes of smart devices and self-driving cars. 6G will also be beneficial to the advancement of Artificial Intelligence and Machine Learning.

WAR CRIME

- **1.**The International Criminal Court (ICC) would open an investigation against Russia into possible war crimes or crimes against humanity in Ukraine. War crimes are those serious violations of international humanitarian law (treaty or customary law) that incurs individual criminal responsibility under international law. This occurs during a conflict.
- 2.War crimes contain two main elements: Contextual element The conduct took place in the context of and was associated with an international/non-international armed conflict"; Mental element The intent and knowledge both with regards to the individual act and the contextual element. The definition of war crimes was established by the Rome Statute of the ICC is derived from the 1949 Geneva Conventions. This definition is based on the idea that individuals can be held liable for the actions of a state or it's military.
- **3.**The UN Office on Genocide Prevention and the Responsibility to Protect separates war crimes from genocide and crimes against humanity. War crimes are defined as occurring in a domestic conflict or a war between two states. But genocide and crimes against humanity can happen in peacetime or during the unilateral aggression of a military towards a group of unarmed people. **4.**Declaring a war crime The laws of war do not always protect civilians from death. Not every civilian death is necessarily illegal. Raids on cities or villages, bombing residential buildings or schools, and even the killing of groups of civilians do not necessarily amount to war crimes not if their military necessity is justified. The same act can become a war crime if it results in unnecessary destruction, suffering and casualties that exceed the military gain from the attack.
- 5.Principles of Declaration of War Crime-To decide whether an individual or a military has committed a war crime, international humanitarian law lays down three principles: distinction, proportionality and precaution. Proportionality

Ukraine to ensure "at least a local ceasefire" so that it could evacuate its nationals stranded in the conflict torn eastern Ukrainian hotspots of Kharkiv and Sumy, said a Ministry of External Affairs (MEA) offi• cial.

Russian forces have seized the Zaporizhzhia nuclear power plant in Ukraine. At an emergency meeting, Security Council members expressed alarm at the prospect of a nuclear incident.

Financial markets the world over have turned extremely volatile as they have been left grappling with heightened uncertainty over the pace of future monetary policy normalisation, Reserve Bank Governor Shaktikanta Das said.

The Russia-Ukraine war could hit global supply chains that are already constrained due to the pandemic and the worst impact would be on the ongoing chip shortage because warring nations control significant supplies of key raw materials used in semiconductors, Moody's Analytics warned in a report.

A deal on reviving the 2015 accord between Tehran and world powers on Iran's nuclear programme is "close", Britain said on Friday, at a crunch point for negotiations in Vienna.

United Nations Security Council (UNSC) members expressed alarm at the prospect of a nuclear incident in Ukraine, at an emergency meeting on Friday, convened hours after a building at Ukraine's Zaporizhzhia nuclear power plant caught fire, as Russians moved in on the facility and seized control of it. The International Atomic Energy (IAEA) chief told the Council that no reactors had been damaged.

The Federation of **Automobile** Dealers Associations (FADA) on Friday revised downwards its sales outlook for the Indian automobile sector from 'neutral' to 'negative' as the Russia-Ukraine conflict is expected to negatively impact the global automobile supply chain. "With Omicron passing away without much impact and supplies showing signs of recovery, it looked as if the Indian auto industry was at the cusp of recovery until Russia invaded Ukraine," the industry body said.

With the Delimitation Commission yet to publish maps of the proposed new constituencies for the Jammu and Kashmir Assembly, a look at the 2011 administrative boundaries along with the draft list of tehsils in some seats points to islands, where a part of the constituency is completely cut off from the rest and surrounded by The another constituency.

prohibits armies from responding to an attack with excessive violence. It is also illegal to target objectives that are "expected to injure or cause incidental loss of civilian life, damage to civilian objectives, which would be excessive in relation to the concrete and direct military advantage anticipated," according to the International Committee of the Red Cross.

6.Precaution requires parties to a conflict to avoid or minimize the harm done to the civilian population. Principle of distinction says that you have to be constantly trying to distinguish between civilian and belligerent populations and objects.

- 1. Multiple agencies are investigating the NSE co-location scam related to the manipulation of the market at the stock exchange. Also known as "carrier hotel", Co-location is a type of data
- **2.**Co-location center is typically associated with a facility where a third party can lease a rack/server space along with other computer hardware.
- 3.Co-location facility provides infrastructure such as power supply, bandwidth, and cooling for setting up servers and storage of data.

SAGAR PARIKARMA

- **1.**Ministry of Fisheries, Animal Husbandry and Dairying is organizing the 'Sagar Parikrama'. The first leg of 'Sagar Parikrama' shall begin from Gujarat for 2 days. Sagar Parikrama program is proposed to be celebrated in all coastal states/UTs.
- 2. Objective To focus on the sustainable balance between the utilization of marine fisheries resources for food security of nation and livelihoods of coastal fisher communities and protection of marine ecosystems.
- 3. Sagar Parikrama Program is to be celebrated through a predecided sea route. Sea routes is from Gujarat, Diu, Maharashtra, Goa, Karnataka, Kerala, Tamil Nadu, Andhra Pradesh, Odisha. West Bengal, Andaman & Nicobar and Lakshadweep Islands.

SARAS 3 RADIO TELESCOPE

1.SARAS 3 radio telescope refutes the recent claim of the discovery of a radio wave signal from cosmic dawn. Cosmic dawn is the time in the infancy of our Universe when the first stars and galaxies came into existence.

2. The signal from Cosmic Dawn is expected to arrive on Earth stretched in wavelength to metres and lowered in frequency by the expansion of the Universe to lie in the radio frequency band 50-200 MHz. SARAS is a precision radio telescope that is used to detect extremely faint radio wave signals from the depths of time, from our "Cosmic Dawn" when the first stars and galaxies formed in the early Universe.

3.It was invented and built by the astronomers at Raman Research Institute (RRI). The SARAS radio telescope was deployed by the RRI team in isolated sites in India to gather celestial radio waves with minimum terrestrial man-made radio interference. It is the first telescope worldwide to reach the required sensitivity.

WATTS ON THE MOON CHALLENGE

1.NASA's Watts on the Moon Challenge seeks solutions for energy distribution, management, and/or storage that address NASA technology gaps and can be further developed for space flight and future operation on the lunar surface.

2. Significance: Not only could novel solutions make a difference in lunar and space exploration, but technologies discovered during NASA's Watts on the Moon competition could help facilitate new power options on Earth.

3.The Challenge is managed by NASA's Glenn Research Center in Cleveland and is part of Centennial Challenges, based at the agency's Marshall Space Flight Center in Huntsville, Alabama.

CO-LOCATION

1.Co-location allows brokers to operate closer to their servers upon payment of additional fees. Co-location facility provides infrastructure such as power supply, bandwidth, and cooling for setting up servers and storage of data.

2.It helps brokers secure an advantage over others due to proximity to exchange servers as data transmission takes less time. Orders reach exchange servers faster than those who have not availed of the facility.

3.Context: The issue of co-location has come into the limelight

