KSG: NEWSPAPER CRUX

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NEWSPAPER HIGHLIGHT

Russian President Vladimir Putin will recognise the independence of eastern Ukraine's separatist republics, the Kremlin said in a statement, adding that he had informed the French and German leaders of his decision. Earlier on Monday, the rebel leaders of eastern Ukraine's separatist Donetsk and Lugansk territories had a ppealed to Mr. Putin to recognise them as independent.

From the lowlying Kuttanad in Kerala to the high altitude Everest Base Camp in Nepal, Najira Noushad (Naaji Noushi), a 33 year old homemaker, is on a 50day solo hitchhiking journey to send a message that India is safe for women travelling alone. Ms. Noushad, a native of Mahe, packed her bags and came to Mankombu in Kuttanad and began the journey to Nepal on February 9.

The Supreme Court asked the Union and the State governments to respond to a petition to enforce the fundamental duties of citizens, including patriotism and unity of the nation, through "comprehensive, well defined laws". "The need to enforce fundamental duties arises from a new illegal trend of protest by protesters in the garb of freedom of speech and expression, by way of blocking of road and rail routes in order to compel the government to meet their demands".

The United Nation's human rights experts have advanced a misleading narrative by alleging "judicial harassment" targeting journalist Rana Ayyub, the Indian mission in Geneva said on Monday. The issue will be taken up formally by the mission which is expected to send a diplomatic note of protest, or note verbale, sources said.

The Odisha government has asked all producers and stockists of singleuse plastic (SUP) to exhaust their stocks by June 30 as manufacture, import, stocking, distribution, sale and use of identified SUP would be prohibited from July 1. In 2018, in exercise of powers conferred under Section 5 of the Environment (Protection) Act, 1986, the State Forest, Environment and Climate Change department had prohibited use of single use disposable cutleries made up of thermocol (polystyrene), polyurethane and plastic in all municipal corporation and municipality limits.

BLUE BLOB

- 1.A recent study theorises that the Blue Blob could slow glacial melting until 2050 by temporarily stalling the melting of Arctic sea ice. The Blue Blob is an unusually cold patch located south of Iceland and Greenland in the North Atlantic Ocean. This patch was most prominent during the winter of 2014-2015 when the sea surface temperature was 1.4 degrees Celsius colder than normal.
- **2.**The Arctic region is reportedly warming four times faster than the global average. Starting in 2011, the speed of Iceland's glaciers melting slowed, resulting in about half as much ice loss. But, this trend was not seen in nearby, larger glaciers across Greenland and Svalbard. The new study predicts cooler water will persist in the North Atlantic, sparing Iceland's glaciers until about 2050. Ocean and air temperatures are predicted to increase between 2050 and 2100, leading to accelerated melting.
- **3.**But the effects of climate change will catch up to the massive ice chunks if temperatures are not kept in check. Before the Blue Blob (2011), a long-term cooling trend called the Atlantic Warming Hole occurred in Iceland.
- **4.**This Warming Hole reduced the sea surface temperatures by 0.4 to 0.8 degrees Celsius during the last century and may continue to cool the region in the future. A possible explanation for the Warming Hole is that the climate change has slowed the Atlantic Meridional Overturning Circulation.
- **5.**Atlantic Meridional Overturning Circulation is an ocean current that brings warm water up from the tropics to the Arctic, thus reducing the amount of heat delivered to the region.

OBSTRUCTIVE SLEEP APNOEA

- **1.**Singer and music composer Bappi Lahiri (69) passed away following complications from Obstructive Sleep Apnoea (OSA). OSA is a widely prevalent but under-diagnosed medical condition. OSA occurs when muscles in the throat and upper airway relax intermittently during sleep and block the airway. When a person is obese, they develop extra fat on their larynx and pharynx (muscles in the throat) that can close off their airway in sleep.
- 2.The muscles start relaxing in sleep and it is a garden hose like situation (when there is no water, it flattens out and no air can go through). Cycle When no air enters the lungs, the oxygen saturation starts falling. When it is critical, the brain wakes the person up. They wake up subconsciously, the breathing restarts. This cycle keeps repeating through the night. Impacts Although the condition doesn't kill by itself, it can lead to heart attacks and strokes due to the low oxygen level. In the long run, it can also result in increasing blood pressure, abnormal heart rhythms, and other metabolic disorders. It further leads to an increase in obesity, compounding the problem.
- **3.**It may also lead to depression. OSA is the most common cause of road accident in the US as people with OSA tend to doze off while driving. Prevalence The prevalence of OSA is 4% among women and 13.4% among men. (less common in women than men). The prevalence in people younger than 40 years of age is about 10% and in those over age 40 is 17%. The prevalence of OSA in India is going up hand in hand with increasing obesity. However, it is underdiagnosed, especially in smaller cities.
- **4.**Check up time Snoring and choking are the most common symptoms of OSA. But not everyone who snores has it. One should definitely check in with the doctor if they feel groggy or sleepy in the morning and doze off during the day. To check whether someone has OSA, doctors look answer for something they call the 'STOP BANG'. It is a series of 8 questions. If your answer to >5 of these 8 questions is a YES, there is a high risk for a person to have OSA. **5.**Prevention **Studies have shown** that a **10% increase in body weight increases the incidence of OSA six-fold. However, if the patients shed 10% weight,** the incidence goes down by **20%. So, the best way to reduce** the symptoms of **OSA** is to lose weight. Treatment The best

As many as 100 primary and community health centres in Rajasthan will start rendering healthcare services as per the national quality assurance standards following memorandum а understanding signed between the National Health Mission (NHM) and a technical partner institution. The MoU will especially make the health accessible to underserved population.

The rollback of Goods and Services Tax (GST) rate "corrections" textiles in late December will hurt the production linked incentives (PLI) scheme for the sector, Union Finance Minister Nirmala Sitharaman said on Monday. She sought a more nuanced debate to undertake course correction in the indirect tax regime instead of a tendency oppose decisions to without understanding their implications.

Amid escalating tensions between Russia and Ukraine, India was on Monday given an update on the developments by Ukraine, according to diplomatic sources. As tensions mounted with separatists in the regions of Donetsk and Luhansk accusing the Ukraine Army of "allegedly preparing for an armed offensive", Kiev said it was "complete fake, a tool for destabilization and not true".

Ministry of Information and Broadcasting Secretary Apurva Chandra on Monday said the Animation, Visual Effects, Gaming, and Comics (AVGC) sector in the country could become the content creation factory of the world.

Indian banks need to become more customer friendly and ensure hassle-free loans, Finance Minister Nirmala Sitharaman said on Monday, even as the chief of the country's largest lender SBI promised to roll out a fully digital loan application system in two months to ease borrowers' lot.

The Centre has no intent to bar the use of blockchain technologies for functions other than those related to payments and the creation of crypto assets, a Finance Ministry official said, allaying fears stemming from the government's ambiguous stance on the legitimacy of crypto assets.

The Drugs Controller General of India (DCGI)) has given emergency use authorisation (EUA) to vaccine maker Biological E's COVID19

method to treat is to use a Continuous Positive Airway Pressure (CPAP) therapy.

6.It is akin to letting the water run in the garden hose to help it maintain the structure. In addition, some surgeries may be offered if there are structural anomalies in the mouth. The Uvulopalatopharyngoplasty is a surgery to open the upper airways by taking out extra tissue in the throat. It just reduces the snoring, but doesn't really treat sleep apnoea.

SYNTHETIC BIOLOGY

1.The Central government is working on a national policy on synthetic biology. Synthetic Biology is a field of science that involves redesigning organisms by engineering them to have new abilities. It designs and constructs new biological parts, devices, and systems, and re-designs the existing, natural biological systems for useful purposes.

2.It harnesses the power of nature to solve problems in medicine, manufacturing and agriculture. Some examples of use of Synthetic Biology are, Microorganisms harnessed for bioremediation to clean pollutants from our water, soil and air. Rice modified to produce beta-carotene, a nutrient usually associated with carrots that prevents vitamin A deficiency. Yeast engineered to produce rose oil as an eco-friendly substitute for real roses that perfumers use to make luxury scents.

3.Difference - In some ways, synthetic biology is similar to "genome editing" because both involve changing an organism's genetic code. However, there is a distinction between these two approaches based on how that change is made. In synthetic biology, scientists typically stitch together long stretches of DNA and insert them into an organism's genome. These synthesized pieces of DNA could be genes that are found in other organisms or they could be entirely novel. In genome editing, scientists typically use genome editing tools to make smaller changes to the organism's own DNA.

4.These tools can also be used to delete or add small stretches of DNA in the genome. Concern - Synthetic biology can be used to synthesize an organism's entire genome. It could be used to develop biological weapons. The first synthetic bacterial genome was completed in 2008 with the synthesis of the genome of Mycoplasm genitalium, a bacterium that can cause urinary and genital tract infections in humans.

5.As part of the 12th Five-Year Plan, India had set up a task force on systems biology and synthetic biology research in 2011. This body underlined the potential benefits from synthetic biotechnology in bio fuels, bioremediation, biosensors, food and health and made a strong case for a push for the technology. It highlighted that India could be a world leader as a protector and supporter of "open source biological platforms".

FIRST INFORMATION REPORT

1. The term first information report (FIR) is not defined in the Indian Penal Code (IPC), Code of Criminal Procedure (CrPC), or in any other law. But in police regulations or rules, FIR is the information recorded under Section 154 ("Information in cognizable cases") of CrPC. As per the Section 154, there are 3 important elements of an FIR, The information must relate to the commission of a cognizable offence, It should be given in writing or orally to the head of the police station and, It must be written down and signed by the informant, and its key points should be recorded in a daily diary.

2.A copy of the information as recorded shall be given forthwith, free of cost to the informant. Cognizable Offence It is one in which a police officer may, in accordance with the First Schedule of the CrPC, or under any other law for the time being in force, make an arrest without a warrant.

3.In the First Schedule, The word 'cognizable' stands for 'a police officer may arrest without warrant'; and The word 'noncognizable' stands for 'a police officer shall not arrest without warrant'. Difference between a complaint and an FIR The CrPC has defined the term "complaint". The term "complaint" as any allegation made orally or in writing to a Magistrate, with a view to his taking action under this Code, that some person has committed an offence, but does not include a police report. However, an FIR is the document that has been prepared by the police after verifying the facts of the complaint.

4.The FIR may contain details of the crime and the alleged criminal. If, on the basis of a complaint, it appears that a cognizable offence has been committed, then an FIR under Section 154 CrPC will be registered. If no offence is found, the

vaccine "Corbevax" for the 12-18 age group.	police will close the inquiry. In case of non-cognizable offences, an FIR under Section 155 CrPC ("Information as to non-cognizable cases and investigation of such cases"), commonly called "NCR", is registered. The complainant will be asked to approach a court for an order. The court may then direct the police to conduct an investigation on the complaint.
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