



May - 10

# **TNPSC BITS**

- India and South Africa proposed for IP waiver at the World Trade Organisation in 2020.
  - Now US President Joe Biden's administration announced its support for a global waiver on patent protections for Covid-19 vaccines and will negotiate the terms at the World Trade Organisation (WTO).
- Hollywood star Tyler Perry took home the Jean Hersholt Humanitarian Award at the 2021 Oscars ceremony.
  - $\circ~$  He has been at the forefront of the entertainment industry's recovery amid the coronavirus pandemic.
- India's External Affairs Minister S Jaishankar attended the G7 Foreign Ministers Meeting in London virtually.
  - He deliberated on increasing support for the global vaccine distribution scheme COVAX and ensure fair access to vaccine stocks, along with girls' education, arbitrary detention, and media freedom on the agenda.
- China "indefinitely" suspended all activity under the China-Australia Strategic Economic Dialogue.
  - This recent trade sanctions have affected several key Australian industries including wine, barley and coal.
- South Carolina lawmakers have passed a bill to allow inmates on death row to be executed by firing squad in the absence of lethal injection drugs.
  - If this becomes a law, it will make South Carolina the fourth state in the country to offer this option as a method of capital punishment.
- The first-ever India-France-Australia Trilateral Foreign Ministerial Dialogue was held in London, UK, on the side-lines of the G7 Foreign Ministers' Meeting.
  - The meeting was attended by External Affairs Minister, Dr S. Jaishankar from India, France's Minister for Europe and Foreign Affairs, Mr Jean-Yves Le Drian and Australia's Minister for Foreign Affairs, Senator Marise Payne.

## TAMIL NADU

### Xylophis deepaki

✤ A tiny snake "Xylophis deepaki" has been named in honour of Indian herpetologist Deepak Veerappan.



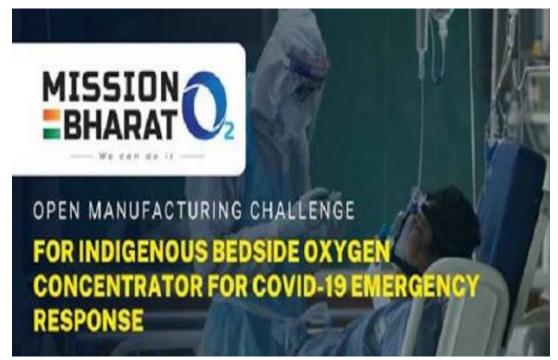


- ✤ This is for his contribution in erecting a new subfamily Xylophiinae to accommodate wood snakes.
- The common name suggested for the species is 'Deepak's wood snake'.
- ✤ Xylophis deepaki is a tiny snake of just 20 cm length with iridescent scales.
- It was first found on a coconut plantation in Kanyakumari.
- It is now reported to be an endemic species of Tamil Nadu and also been sighted in some parts of the southern Western Ghats.
- It is found in the drier regions and in lower altitudes around Agasthyamalai hills.

## NATIONAL

### **Mission Bharat O**<sub>2</sub>

- ✤ The Start-up Incubation and Innovation Centre (SIIC) of IIT Kanpur has launched Mission Bharat O2.
- It is a 45-day open challenge for manufacturing high-quality indigenous, rapidly scalable oxygen generation units to help combat the emergency.
- ✤ Last year also, SIIC had supported its incubated companies to develop indigenous products like Swasa N-95 mask and Noccarc V310 ventilator.







### **INTERNATIONAL**

### **Asian Development Outlook 2021**

- The Asian Development Outlook 2021 is a report released by the Asian Development Bank (ADB).
- The report said the 45 economies that excluded Japan, Australia and New Zealand, were to grow 7.3% this year, supported by a healthy global recovery and early progress on COVID-19 vaccines.
- The pandemic was the biggest threat to Asia and the Pacific (including India), mainly due to delay in vaccine rollouts or major new outbreaks.
- Average inflation in the region was forecast to fall to 2.3% in 2021, from 2.8% in 2020.
- While east and south Asia forecast were to see the strongest growth, the central and Southeast Asia and the Pacific were to see more moderate growth.
- The report said that the ongoing 'second wave' COVID-19 pandemic could put India's economic recovery at risk.
- It said that excluding the second wave, India's economy was expected to grow 11% in fiscal year 2021-2022, amid a strong vaccine drive.
- ✤ India's GDP was expected to expand 7% in 2022.







### **US participation in PESCO**

- The European Union recently approved the requests of Norway, Canada and United States to participate in Permanent Structured Cooperation (PESCO) defence initiative.
- For the first time, the European bloc has allowed a third state to participate in the PESCO project.
- ◆ The countries will now participate in the Military Mobility Project in Europe.
- ◆ PESCO is a part of the European Union security and defence policy.
- It was introduced based on the Treaty of European Union introduced by Treaty of Lisbon in 2009.

## SCIENCE AND TECHNOLOGY

### Starship SN15 - SpaceX

- ✤ SpaceX successfully launched and landed its Starship SN15 without any explosion.
- The Starship SN15 became SpaceX's first Starship prototype that did not get destroyed during its test flight.
- ✤ All the previous SpaceX's Starship prototypes, SN8, SN9, SN10, and SN11, had exploded during or after landing.

### **Lightning Cleanser**

- ✤ A team of researchers found that lightning bolts increase the ability of the atmosphere to cleanse itself or breakdown greenhouse gases (GHGs).
- The extreme amounts of hydroxyl radical (OH) and hydroperoxyl radical (HO2) were discharged during lightning events.
- This OH initiates chemical reactions and breaks down molecules like the GHG methane.

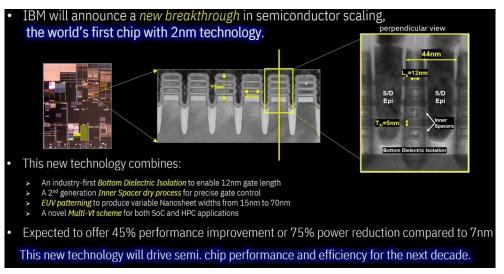
### 2-nanometer chipmaking technology

- ◆ IBM introduced the world's first 2-nanometer chipmaking technology.
- ✤ The technology could be as much as 45% faster than the mainstream 7nanometer chips (used in today's laptops and phones).
- ✤ Also, it is up to 75% more power efficient





The 2-nanometer chips will be smaller and faster than today's leading edge 5nanonmeter chips, which are just now showing up in premium smartphones like iPhone 12 models.



## **ENVIRONMENT**

### **Global Assessment on methane emissions**

- ✤ A Global Methane Assessment released today by the Climate and Clean Air Coalition (CCAC) and the United Nations Environment Programme (UNEP).
- This shows that human-caused methane emissions can be reduced by up to 45 per cent this decade.
- Such reductions would avoid nearly 0.3°C of global warming by 2045.
- ✤ Also, this reduction would be consistent with keeping the Paris Climate Agreement's goal to limit global temperature rise to 1.5 degrees Celsius (1.5°C) within reach.

### **STATES**

#### Ban on Glyphosate - Telangana

- The Telangana Government recently imposed a total ban on Glyphosate.
- The Glyphosate is a controversial herbicide usually use to kill weeds in cotton farms.
- ✤ The usage of Glyphosate is banned because it is carcinogenic.
- ✤ Also, it is being banned to control the illegal cultivation of HTBt cotton.





- ✤ Glyphosate is absorbed through foliage (plant leaves).
- ✤ It is minimally absorbed by roots.
- In 2015, World Health Organisation classified Glyphosate under Category 2A, that is, a "Probably Carcinogenic in Humans".



\* \* \* \* \* \* \* \* \*