

November - 11

## TNPSC BITS

- ❖ The All-India Football Federation won the AFC President's Recognition Award for Grassroots Football in the Bronze Category at the AFC Annual Awards in Doha.
  - It was AIFF's second bronze medal in the category, having earned the same recognition back in 2014.
- ❖ Swedish defence company Saab's plan to set up a rocket manufacturing facility in India approved by centre and this is the first 100 percent foreign direct investment (FDI) project in the defence sector.

## TAMIL NADU

### Online Games Act – 2022



- ❖ The Madras High Court refused to strike down the Tamil Nadu Prohibition of Online Gambling and Regulation of Online Games Act, 2022 entirety.
- ❖ But ruled that the prohibition would apply only to games of chance and not to games of skill such as rummy and poker.
- ❖ The games of rummy and poker, which are considered as games of skill, are now also sought to be played online.
- ❖ The judges recognised the right of the State government to frame regulations with respect to imposing age restrictions on the players of online games, fixing monetary and time limits within which the games could be played.
- ❖ The 2022 Act specifically deals only with online games and not offline games.

### Menace of wild animals in agricultural fields

- ❖ A special panel, formed to address farmers' woes of wildlife conflict, met virtually to discuss the menace caused by wild animals in agricultural fields in Tamilnadu.

- ❖ In the 19-member committee's first meeting, farmers from Erode, Coimbatore, Dindigul, Krishnagiri, and Dharmapuri voiced their concerns about damages to crops caused by wild boars, peacocks, elephants and, in some cases, monkeys.
- ❖ The committee will make field visits to Kerala and Karnataka to assess their wildlife management strategies, particularly for wild boars.



## NATIONAL

### Bharat Atta

A Festive Treat  
**भारत BRAND**  
That Stands for Quality and Affordability

Product	Price
Bharat Atta	@ ₹27.50/KG
Bharat Dal	@ ₹60/KG
Onion	@ ₹25/KG

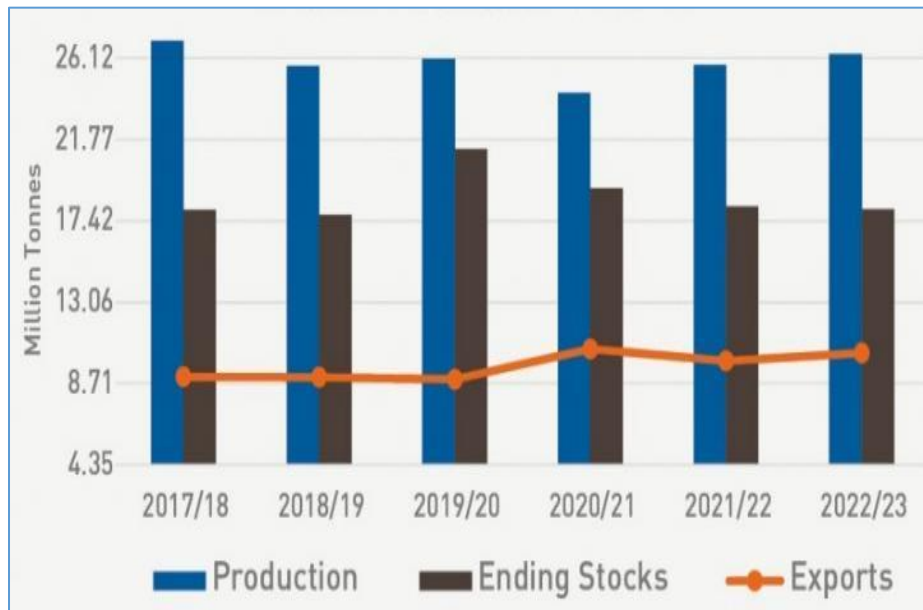
To be made available through cooperative institutions like NAFED and NCCF

- ❖ The Central government has launched a new wheat flour scheme called 'Bharat Atta' at a subsidised price of Rs 27.50 per kg.
- ❖ The scheme is aimed at providing affordable wheat flour to the poor and vulnerable sections of the society.

- ❖ Bharat Atta is a fortified wheat flour that is made with a blend of wheat, rice, and pulses.
- ❖ It is a good source of protein, iron, and other essential nutrients.
- ❖ The scheme will be implemented through the Public Distribution System (PDS), ensuring easy access to affordable wheat flour for the target population.

### **Cotton Production 2023-2024**

- ❖ Cotton production during 2023-2024 cotton season is expected to be 6% lesser than the season that ended on September 30.
- ❖ The Committee on Cotton Production and Consumption estimated cotton production in the current season (October 2023 to September 2024) to be 316.57 lakh bales (170 kg each).
- ❖ This was 336.60 lakh bales in 2022-2023.
- ❖ The total consumption by textile mills is expected to be 294 lakh bales compared with 295 lakh bales last season.
- ❖ Exports are likely to be 25 lakh bales and imports 12 lakh bales.

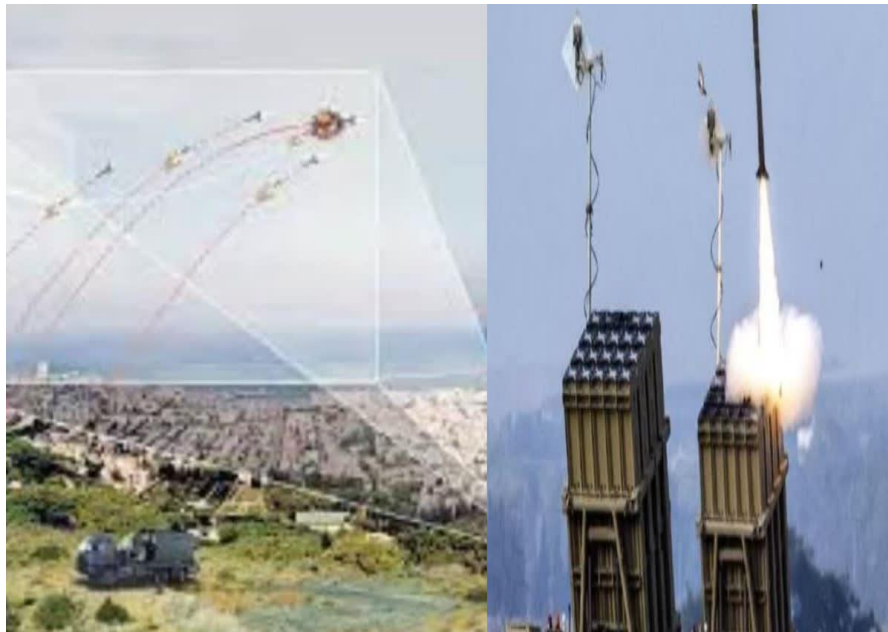


## **SCIENCE AND TECHNOLOGY**

### **Project Kusha**

- ❖ India's own long-range air defence system, titled 'Project Kusha', is being developed by the Defence Research and Development Organisation (DRDO).

- ❖ It will be capable of detecting and destroying enemy projectiles and armour, including cruise missiles, stealth fighter jets, and drones at long range.
- ❖ The ambitious project is believed to not only perform better than Israel's Iron Dome system, but also rival the effectiveness of Russia's S-400 system and the 'Patriot' system of the United States.
- ❖ The indigenous long-range surface-to-air defence system (LR-SAM) includes long-range surveillance and fire control radars, along with interceptor missiles.
- ❖ These missiles can detect and strike hostile targets at the ranges of 150 km, 200 km, and 350 km.
- ❖ It will also be effective in providing strategic and tactical cover.
- ❖ The system reportedly has a single-shot kill chance of at least 80% and over 90% when two missiles are fired after each other.



### **Pralay Tactical Ballistic Missile**

- ❖ India successfully test fired 'Pralay', short-range tactical ballistic missile (TBM).
- ❖ The missile was developed by the Defense Research and Development Organisation.
- ❖ Pralay is a surface-to-surface TBM with a range of 350-500 kilometres and with a payload capacity of 500 to 1,000 kilograms.
- ❖ This missile is specifically designed for deployment along the Line of Actual Control opposite China.

- ❖ It flies lower than a ballistic trajectory and maintains high speed throughout the flight.
- ❖ The missile comes in a canisterised configuration.

**PRALAY: Surface-to-Surface Missile**

Pralay is a canisterised tactical, surface-to-surface, and short-range ballistic missile for battlefield use developed by the Defence Research and Development Organisation of India

It has the capability to defeat interceptor missiles

**ENGINE:** Two stage rocket motor with third stage MaRV

**SPEED:** Mach 1 to 1.6

**RANGE:** 150-500 km

**TRAJECTORY:** low

**GUIDANCE SYSTEM:** Inertial navigation system

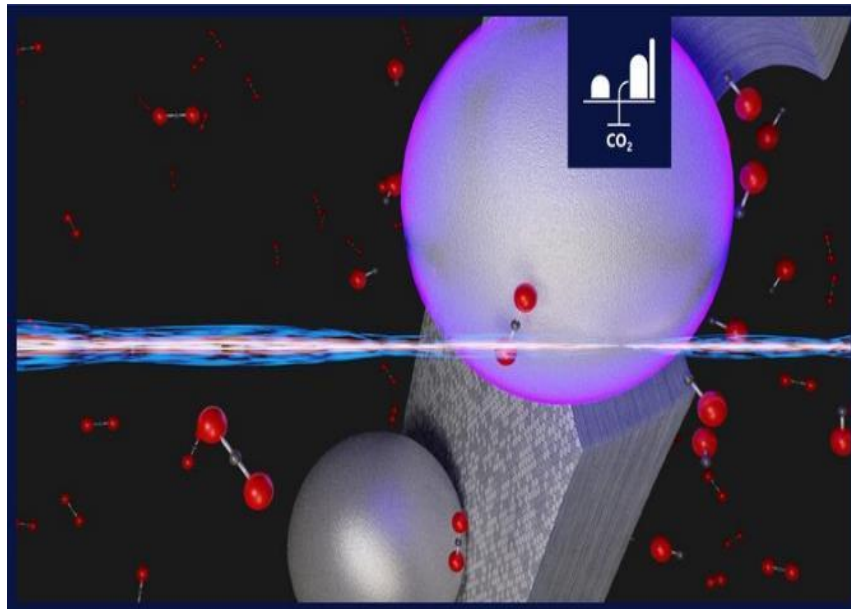
**LAUNCH PLATFORM:** 8x8 BEML-Tatra transporter erector launcher

**MASS:** 5 tonnes (4.9 long tons; 5.5 short tons)

**OPERATIONAL RANGE:** 150-500 km (93-311 mi)

The diagram shows a side view of the Pralay missile. It is a long, cylindrical missile with a yellow and orange color scheme. The word 'PRALAY' is written on the side. Labels point to different parts: 'Controls' at the rear, 'Rocket Motor' in the middle, 'Warhead Bay' at the front, and 'Warhead' at the very tip.

## CO<sub>2</sub> to CO Conversion



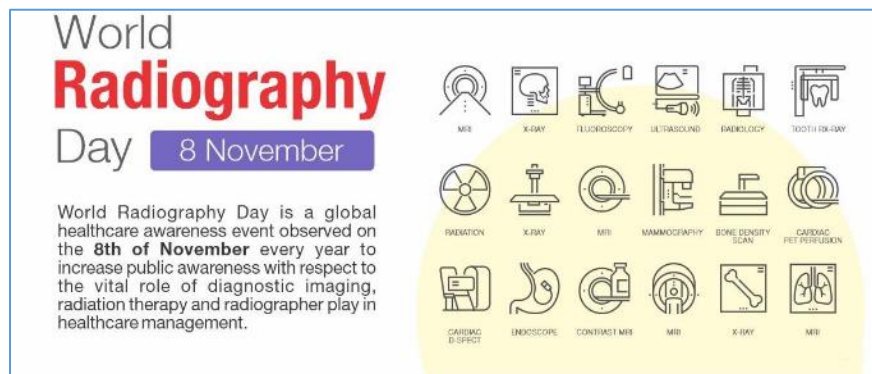
- ❖ Researchers demonstrated a room-temperature method that could significantly reduce carbon dioxide levels in fossil-fuel power plant exhaust.

- ❖ In this reaction, solid carbon latches onto one of the oxygen atoms in carbon dioxide gas, reducing it to carbon monoxide.
- ❖ The conversion normally requires significant amounts of energy in the form of high heat — a temperature of at least 700 degrees Celsius.
- ❖ Instead of heat, the team relied on the energy harvested from traveling waves of electrons, known as localized surface plasmons (LSPs), which surf on individual aluminium nanoparticles.

## IMPORTANT DAYS

### World Radiography Day 2023 - November 08

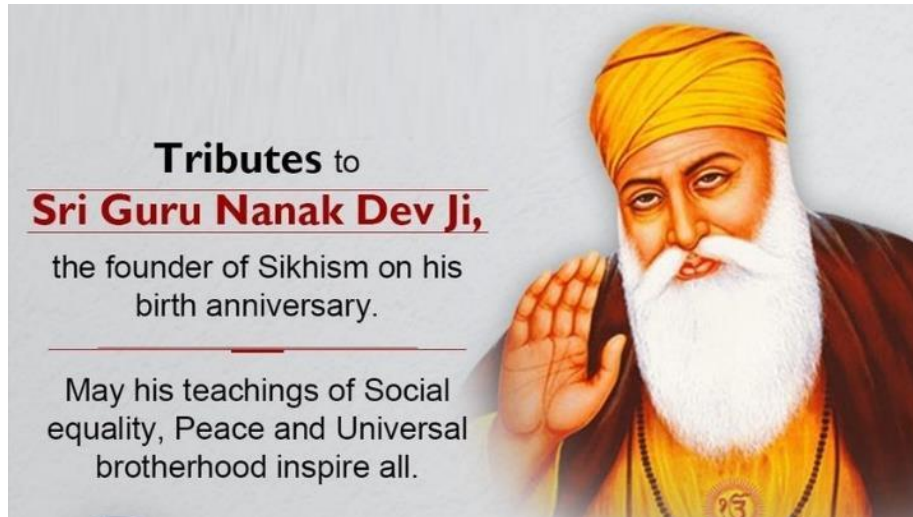
- ❖ The day aims to create awareness about the crucial role of radiographers in the healthcare system.
- ❖ On November 8, 1895, Wilhelm Conrad Roentgen, a German physicist discovered x-radiations.
- ❖ Radiography is the science of using radiation to provide images of tissues, organs, bones and vessels inside the human body.
- ❖ The theme for 2023 is "Celebrating patient safety."



### Guru Nanak Dev's Birth Anniversary - November 08

- ❖ The first Sikh guru, Guru Nanak, was born on Guru Nanak Jayanti, also known as Guru Nanak's Prakash Utsav.
- ❖ It is celebrated to mark the anniversary of their first Sikh Guru who played an important role in shaping and strengthening the Sikh community.
- ❖ Guru Nanak is believed to have founded Sikhism.
- ❖ According to the Nanak shahi calendar, Guru Nanak was believed to have been born on April 14, which is Vaisakhi.

- ❖ However, some Sikh communities hold the belief that Guru Nanak was born on the full moon day of Kartik, the lunar month that falls between October and November.



### **World Town Planning Day 2023 - November 08**

- ❖ It aims to celebrate how good planning improves the lives of people and benefits society at large, creating places where to live, work and play together.
- ❖ Argentinian professor Carlos Maria della Paolera started World Town Planning Day in Buenos Aires in 1949.
- ❖ This year's theme is Learn Globally, Apply Locally.

