

11th October 2024

Demise of Shri Ratan Tata

Ratan Naval Tata, a prominent figure in modern Indian business, passed away on October 9, 2024, at Breach Candy Hospital in Mumbai, Maharashtra.

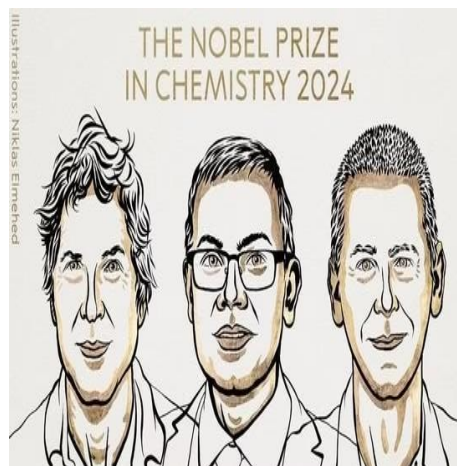


Key Point

- ❖ Ratan Naval Tata was born on December 28, 1937, to Sooni and Naval Tata.
- ❖ In 1991, he became the chairman of Tata Sons following the death of Jehangir Ratanji Dadabhoy Tata (JRD Tata).
- ❖ During his leadership, the Tata Nano car was launched, priced at Rs one lakh.
- ❖ **Awards**
 - Padma Vibhushan (India's 2nd highest civilian award) - 2008
 - Padma Bhushan (India's 3rd highest civilian award) - 2000
 - Udyog Ratna of Maharashtra - 2023

Nobel Prize In Chemistry

U.S. Scientists David Baker and John Jumper and Britain's Demis Hassabis won the 2024 Nobel Prize in Chemistry.



Key Point

- ❖ Half the prize was awarded to Baker "for computational protein design" while the other half was shared by Hassabis and Jumper "for protein structure prediction"
- ❖ Baker is a professor at the University of Washington, in Seattle, while Hassabis is CEO of Google DeepMind, the AI research subsidiary of Google, where Jumper also works as a senior research scientist.
- ❖ Hassabis and Jumper utilized artificial intelligence to predict the structure of almost all known proteins, while Baker learned how to master life's building blocks and create entirely new proteins

ASEAN-India, East Asia Summits

Prime Minister Narendra Modi on 10 October has departed for a two-day visit to Laos to attend the 21st ASEAN-India Summit and the 19th East Asia Summit.



Key Point

- ❖ The significance of this particular summit will be that it is the tenth anniversary of the Prime Minister's Act East policy.
- ❖ The PM, along with other heads of state in the governments of ASEAN countries will review the relations progress between India and ASEAN and he will chart the future direction of our relationship.
- ❖ Prime Minister Modi is expected to hold bilateral meetings at the margins of the two summits. Moving on to the East Asia Summit, which encompasses 10 ASEAN countries and eight partners, Australia, China, India, Japan, the Republic of Korea, New Zealand, Russia and the United States

About Association of Southeast Asian Nations(ASEAN):

- ❖ It was founded on August 8, 1967, by five initial member countries: Indonesia, Malaysia, the Philippines, Singapore, and Thailand.

- ❖ Over time, ASEAN expanded to include Brunei Darussalam, Lao PDR, Cambodia, Myanmar, and Vietnam.
- ❖ Official Motto: "One Vision, One Identity, One Community," reflecting unity.
- ❖ ASEAN Secretariat: Indonesia, Jakarta.
- ❖ Objective: To accelerate economic growth, social progress and cultural development in the region.

ISRO's 5th lunar mission, 'Lupex,' has received approval

India's National Space Commission has officially approved the Lunar Polar Exploration Mission (Lupex), marking the nation's fifth mission to the Moon. This mission will be undertaken in collaboration with Japan.



Key Point

- ❖ LUPEX will act as a pathfinder for the sample return mission for India and the nation plans to launch its first woman astronaut to Moon by 2040.

- ❖ The mission will study status and quality of water on the Moon and its far side specifically.
- ❖ Also known as the dark side this part is not visible from earth due to what scientists call Tidal Locking which is the moon's rotation period is equal to its orbital period around the earth.
- ❖ India ISRO will design the lunar rover while Japan JAXA will design the lunar lander. Extra Payloads from NASA and ESA will also be accommodated in the rover for further observations.
- ❖ The mission focuses on the southern part of the Moon which scientists believe to have ice deposits. However, it is difficult for a craft to land in this region because of dearth in flattened areas, lighting, and communication.

About Chandrayaan-3 Mission

- ❖ Chandrayaan-3 mission was successfully launched by ISRO from Sriharikota, Andhra Pradesh on 14 July 2023 by using GSLV-Mark III (LVM-3) rocket.
- ❖ Vikram was the name of the lander and Pragyan was the name of the rover that the spacecraft housed.
- ❖ During the mission, the Pragyan rover conducted several scientific activities such as identify the chemical structure of the rocks of the moon by using spectrometer.

- ❖ The Pragyan rover was able to travel around the landing area and was able to traverse about 103 meters for ten Earth days.

Sugam Vidyut (Facility)

Sugam Vidyut (Facility) Scheme-2024" has been implemented to provide relief in payment of cost of construction of infrastructure required to provide permanent electricity connection to the residents of declared and undeclared illegal colonies of the Madhya Pradesh.



Key Point

- ❖ This scheme created to solve the problems of the residents of these colonies will be applicable for two years.
- ❖ The infrastructure cost amount can be deposited in installments under the conditions prescribed in the scheme
- ❖ Under the scheme, the applicant or group of applicants will have to pay a minimum of 25 percent of the prescribed amount in lump sum along with the application.
- ❖ The remaining amount can be paid with interest along with the monthly bill after the connection is started. Payment can be made in a maximum period of two years.

ISRO Third Launch Pad

The proposal for the third launch pad at Sriharikota has received approval from the National Space Commission.



Key Point

- ❖ The Launch pad will feature horizontal integration and tilting, unlike the traditional vertical launches.
- ❖ Currently, the second launch pad is the only one capable of handling larger vehicles like GSLV and LVM-3, but there is no backup if it becomes inoperable.
- ❖ The first launch pad was initially designed for PSLV and cannot support cryogenic stages, limiting its use for newer vehicles.
- ❖ NGLV is being developed to meet future demands, with a goal of launching 20-tonne payloads to Low Earth Orbit (LEO), compared to the current 9.2 tonnes with LVM-3.

Short News

- ❖ India has officially launched its 'Study in India' campaign at the 20th International Education Show in Sharjah, marking a significant push to attract international students to its universities.

- ❖ Uttar Pradesh Chief Minister Yogi Adityanath unveiled the new multi-colored logo for Mahakumbh 2025 in Prayagraj, symbolizing religious and economic prosperity.
- ❖ MACE Observatory, Asia's largest and world's highest imaging Cherenkov telescope, was inaugurated in Hanle, Ladakh.
- ❖ The All India Pickleball Association (AIPA) will host the World Pickleball Championship (WPC). Series in Mumbai marking the first time this championship is held in India.
- ❖ India, the sixth largest global contributor of core funding to the World Health Organisation (WHO), has now committed to give more than \$300 million for the organisation's core programme of work from 2025 to 2028.
- ❖ India's Academic Freedom score dropped from 0.6 points in 2013 to 0.2 points in 2023, marking its lowest score since the mid-1940s.

Important Daily Current Affairs Question

1. Who has been awarded the Nobel Prize in chemistry for the year 2024?

- (a) Emmanuelle Charpentier, Jennifer Doudna and David Baker
- (b) Victor Ambros and Gary Ruvkun
- (c) David Baker, John Jumper and Demis Hassabis
- (d) David Julius and Ardem Patapoutian

Answer – (c)

2. The Lunar Polar Exploration Mission (Lupex), marking India's fifth mission to the Moon, will be conducted in collaboration with which of the following agencies?

- (a) NASA
- (b) ESA
- (c) Roscosmos
- (d) JAXA

Answer – (d)

