

July - 11

TNPSC BITS

- ❖ The Women and Child welfare representatives from six Indian States - Andhra Pradesh, Karnataka, Kerala, Odisha, Tamil Nadu, and Telangana, were signed an Inter-State Declaration of Intent to work in collaboration to combat trafficking in persons.
- ❖ Tunisia's Ons Jabeur is the First Arab Woman, also the North African Women, to Reach the Semi-Finals in a Grand Slam Single Tournament.
 - She reached this position in Wimbledon in 2022.

TAMIL NADU

Solar manufacturing facility



- ❖ Tata Power signed a deal with the Tamil Nadu government to invest Rs. 3000 crores in the construction of a new solar cell and module manufacturing facility in Tirunelveli district.
- ❖ It aims to promote the switch to renewable energy and the creation of jobs in the state.

NATIONAL

School for sustainable science and tech

- ❖ Greenko has joined hands with IIT-Hyderabad to set up an institution.
- ❖ The students will be educated towards sustainable goals like climate change mitigation, circular economy, energy transition among others.

- ❖ This institute is to be India’s first dedicated school for sustainable science and technology.

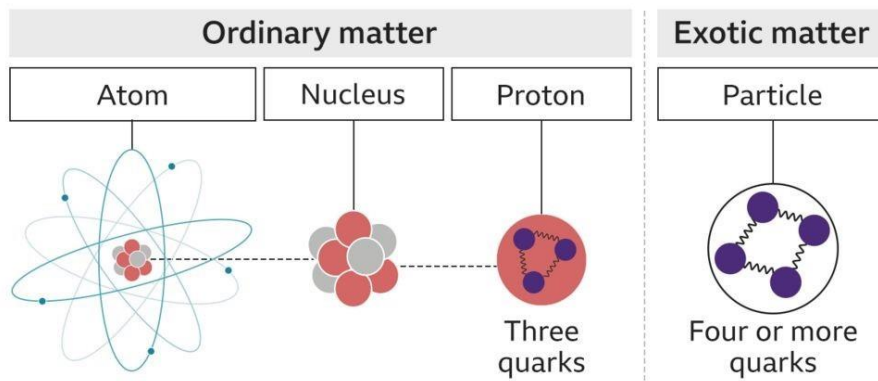


SCIENCE AND TECHNOLOGY

New sub-atomic particles

Ordinary and exotic matter

● Protons ● Neutrons



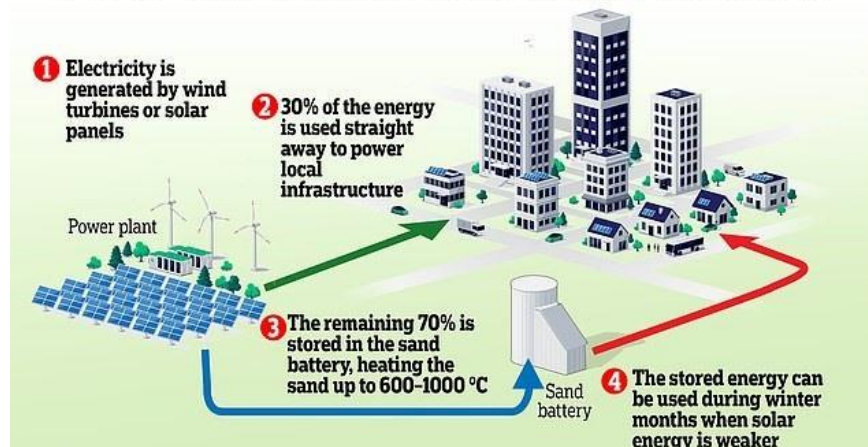
- ❖ The LHCb collaboration has observed a new kind of pentaquark and the first-ever pair of tetraquarks.
- ❖ The new particles called as “beauty quark”, or “b quark”.
- ❖ These three particles are unknown till date.

World’s first “sand battery”

- ❖ A battery that stores heat energy in sand has been installed in western Finland.

- ❖ Electricity from renewable sources is used to heat the sand to around 932°F.
- ❖ The heat energy then warms water that can be circulated around local buildings.
- ❖ It can store energy from sources that work intermittently, like wind and solar.
- ❖ It can hold renewable energy for up to months at a time.

HOW THE SAND BATTERY WORKS



ENVIRONMENT

New Discoveries 2021



- ❖ The Zoological Survey of India (ZSI) had contributed to 68% of the animal discoveries in 2021.
- ❖ *Crocidura narcondamica*, a white-toothed shrew from the Andaman and Nicobar group of islands, is the newly identified mammal species.
- ❖ *Boiga whitakeri*, also known as the Whitaker's cat snake, was one of the remarkable reptiles found in 2021.

- ❖ It was found in Tamil Nadu's Western Ghats.
- ❖ The order of insects known as the Hymenoptera was the source of the most new discoveries.
- ❖ It is accounting for 80 species, including one new genus.
- ❖ Hymenoptera includes sawflies, wasps, bees, and ants.
- ❖ According to the Botanical Survey of India (BSI), regions such as the Western Ghats and the north eastern regions have contributed 28% of the total discoveries.
- ❖ In State-wise analysis, the most number of discoveries were made from Kerala with 51 taxa.
- ❖ It is followed by Maharashtra and Arunachal Pradesh.

World's Largest Waterlily Species

- ❖ *Victoria boliviana* is now the world's largest water lily.
- ❖ It usually grows in freshwater rivers, floodplains and ponds in north-eastern Bolivia.
- ❖ This is the third species in the *Victoria* genus.
- ❖ *Victoria amazonica* and *Victoria cruziana* are the other two species of water lilies.



STATES

Nari Ko Naman scheme

- ❖ The Himachal Pradesh government has launched 'Naari Ko Naman' scheme.
- ❖ It aims to provide 50 % concession on fares in Himachal Road Transport Corporation (HRTC) buses to women commuters within the state boundaries.

- ❖ Seema Thakur, the first woman bus driver in the state, drove him in a state transport bus to the event venue.



State Ranking Index for NFSA

IMPLEMENTING FOOD SECURITY

How the 20 'general category' states ranked in terms of NFSA implementation

TOP THREE

Rank	State	Index score
1	Odisha	0.836
2	Uttar Pradesh	0.797
3	Andhra Pradesh	0.794

BOTTOM THREE

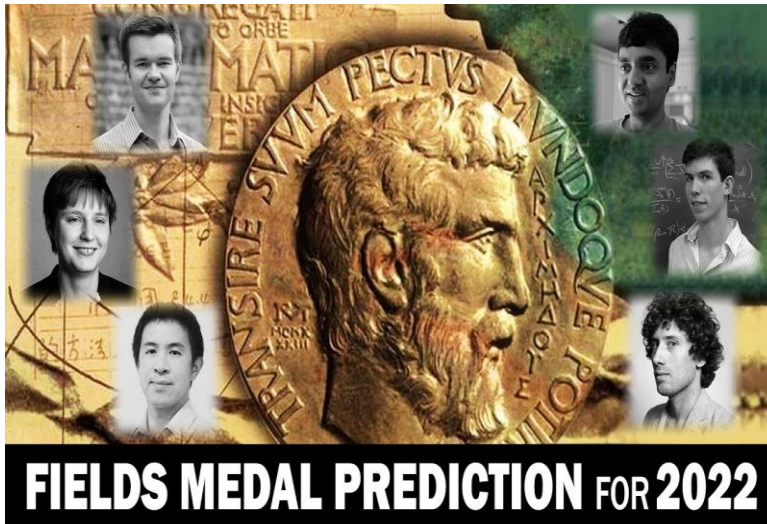
18	Delhi	0.658
19	Chhattisgarh	0.654
20	Goa	0.631

- ❖ State Ranking Index for National Food Security Act (NFSA) 2022 was released by recently.
- ❖ Odisha was ranked first, for bringing resilient food systems in state, in a bid to optimise the delivery of benefits.
- ❖ It is followed by Uttar Pradesh at the 2nd spot and Andhra Pradesh at 3rd amongst the General Category States.
- ❖ Among the Special Category states/UTs, Tripura stood first followed by Himachal Pradesh and Sikkim respectively.

- ❖ Among the 3 UTs where Direct Benefit Transfer (DBT) – Cash is operational, Dadra and Nagar Haveli & Daman and Diu is the top ranked UT.

PERSONALITIES, AWARDS, AND EVENTS

Fields Medal 2022



- ❖ Four mathematicians have been awarded the prestigious Fields Medals.
- ❖ It is dubbed as the Nobel prize in maths.
- ❖ It is awarded by the International Mathematical Union (IMU).
- ❖ It is an international non-governmental and non-profit scientific organisation.
- ❖ It is awarded to mathematicians under 40.
- ❖ The four awardees of the prize include
 - France's Hugo Duminil-Copin - Institut des Hautes Études Scientifiques
 - US-based June Huh – Princeton University
 - Britain's James Maynard – University of Oxford
 - Ukraine's Maryna Viazovska – Swiss Federal Institute of Technology.
- ❖ Ukraine's Maryna is only the second woman to receive the award.
- ❖ The other female laureate was Iran's Maryam Mirzakhani in 2014.

Force Commander of UNMISS

- ❖ India's Lieutenant General Mohan Subramanian has been appointed the Force Commander in the United Nations Mission in South Sudan (UNMISS).



- ❖ Almost 20,000 peacekeepers serve with the United Nations Mission in South Sudan.
- ❖ They work to protect civilians and build durable peace in the conflict-affected country.
- ❖ A total of 1,160 peacekeepers from India are currently serving in South Sudan.



Shiromani Award



- ❖ Michelle Poonawalla has received the Shiromani Award at NRI World Summit 2022, held at United Kingdom.
- ❖ The Shiromani Award was also awarded to Shri Sadhu Bhramvihari, Lord Rami Ranger, Rita Hinduja Chhabria.

SPORTS

Test wickets in SENA Countries

- ❖ Jasprit Bumrah became the 6th Indian bowler and 5th pacer to take 100 wickets in SENA counties.
- ❖ Thus, he joining the league of legends like Kapil Dev, Zaheer Khan, Ishant Sharma, Mohammed Shami, and Anil Kumble.
- ❖ The SENA Countries include South Africa, England, New Zealand and Australia.



100 TEST WICKETS

JASPRIT BUMRAH



Commonwealth Games 2022

- ❖ Women's cricket will be making its debut in the Birmingham Commonwealth Games 2022.
- ❖ This would be the second-ever time that cricket will be played in the Commonwealth Games.

- ❖ It has only been played once before in Kuala Lumpur Commonwealth Games 1998 when men's ODI cricket was included in the schedule.
- ❖ Birmingham 2022 will see T20 Cricket make its debut in Commonwealth Games.
- ❖ This will also mark the first appearance of the women's cricket in the event.



MISCELLANEOUS

Dinosaur Skeleton Auction



- ❖ A 76 million-old fossilized skeletons of a dinosaur will be auctioned end of this month in Newyork.
- ❖ The fossils became known for forming one of the most intact dinosaur skeletons ever discovered.



- ❖ This remains were discovered in 1987.
- ❖ The size of skeleton is 10 feet tall and 22 feet long

