

August - 10

TNPSC BITS

- ❖ President Droupadi Murmu was conferred the Companion of the Order of Fiji, the highest honour of Fiji by the President of Fiji.
- ❖ The first Conference of Governors to presided by President Murmu was held in Rashtrapati Bhavan, Delhi.
- ❖ Lt Col Kabilan Sai Ashok has made history as the youngest Olympic referee in boxing from India at the Paris Olympics.
- ❖ Recently, a maritime partnership exercise (MPX) was conducted between India and Russia in St. Petersburg of Russia.
- ❖ Novak Djokovic of Serbia secured his first Olympic gold medal at the Paris 2024 Olympics.

NATIONAL

Appropriation Bill for Financial Year 2024-25



- ❖ The Lok Sabha has approved about ₹140 lakh crore in expenditure demands by different ministries of the Central Government.
- ❖ It is completing two-thirds of the legislative approvals needed for the full Budget of 2024-25.
- ❖ This is followed a guillotine being applied after a discussion on grants for four ministries — Railways, Education, Health and Fisheries.



- ❖ The Rajya Sabha is also simultaneously discussing demands for grants for four other ministries — Agriculture, New and Renewable Energy, Cooperation, Housing, and Urban Affairs.
- ❖ It has also discussed the Finance Bill, but as per the Constitution, it can only return such bills to the Lower House.

Bill for Oil and Gas Policy Stability

CHANGES IN THE OFFING

- Oilfields (Regulation and Development) Amendment Bill, 2024, bats for new 'petroleum leases' to be granted on stable terms
- Reporting of carbon emissions, facilitation of solar, wind projects at oilfields
- Expands ambit of law to wider range of mineral oils, such as shale oil, gas hydrates
- Introduces alternative dispute resolution methods

- ❖ The Oilfields (Regulation and Development) Amendment Bill, 2024 was introduced in Rajya Sabha.
- ❖ It aims to boost investor sentiment by addressing many long-held concerns.
- ❖ The Bill has proposed to replace "mining leases" with "petroleum leases".
- ❖ The Bill also allows for a dispute resolution mechanism "in a place within India or outside
- ❖ The Bill seeks to decriminalise the breach of petroleum law and introduces financial penalties instead.

Disaster Management (Amendment) Bill 2024

- ❖ The Disaster Management Act, 2005 was enacted to provide for the effective management of disasters.
- ❖ The Disaster Management (Amendment) Bill, 2024 introduced in the Lok Sabha.
- ❖ The Bill seeks to create a "disaster database at national and State level."

- ❖ It also makes provision for the constitution of “the Urban Disaster Management Authority” for the State capitals and large cities having municipal corporations, except the union territories of Delhi and Chandigarh.
- ❖ The Bill empowers the NDMA to take stock of the entire range of disaster risks in the country periodically, including emerging disaster risks.
- ❖ It includes “risks of those disasters that may not have taken place, but may occur in future due to extreme climate events and other factors.”

Disaster Management (Amendment Bill), 2024:

- ▶ The bill seeks to amend the Disaster Management Act, 2005, which was enacted to provide for the effective management of disasters.
- ▶ The bill makes provision for the constitution of “Urban Disaster Management Authority” for State capitals and large cities having municipal corporations, except the union territories of Delhi and Chandigarh.
- ▶ The bill empowers the National Disaster Management Authority (NDMA) and the State Disaster Management Authorities to prepare the disaster plan at the national level and state level, respectively, instead of the plans made by the National Executive Committee and the State Executive Committees earlier.

Extended PMSMA

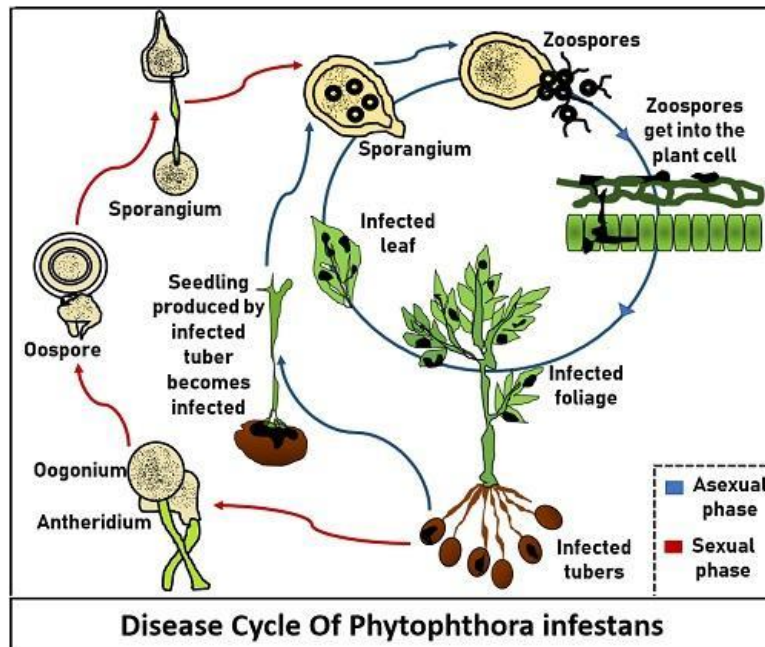


- ❖ Continuing with the efforts to ensure safe motherhood through PMSMA and with the vision for further improvement, an Extended PMSMA strategy was launched recently.

- ❖ The Pradhan Mantri Surakshit Matritva Abhiyan (PMSMA) has been launched by the Ministry of Health & Family Welfare in July 2016.
- ❖ It aims to provide assured, comprehensive and quality antenatal care, free of cost, universally to all pregnant women on the 9th of every month.
- ❖ PMSMA guarantees a minimum package of antenatal care services to women in their 2nd / 3rd trimesters of pregnancy at the designated government health facilities.

SCIENCE AND TECHNOLOGY

Late Blight Diseases




- ❖ The Central Potato Research Institute (CPRI) has issued an advisory for potato farmers about risk of late blight disease.
- ❖ Late blight disease, a fungal infection, is caused by Phytophthora Infestans.
- ❖ The disease is favoured by cool, moist weather conditions, making the current weather scenario conducive to its spread.

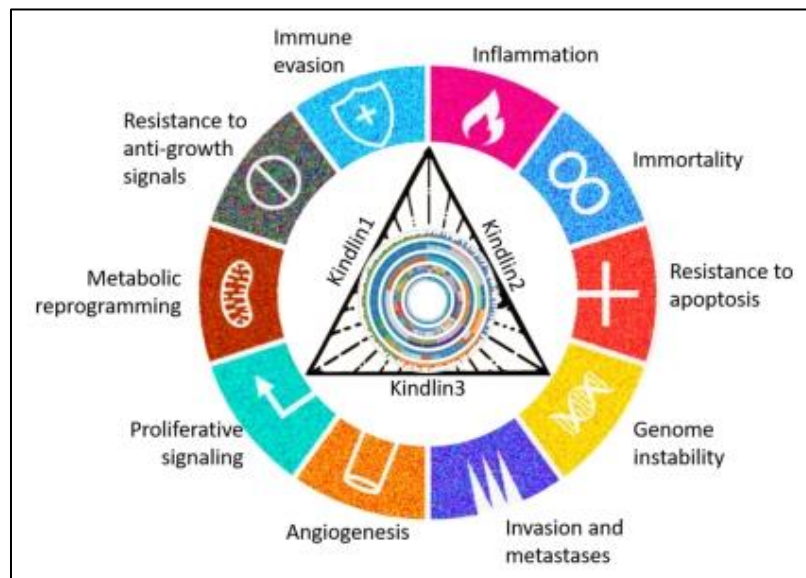
34 New Enormous Cosmic Radio Sources

- ❖ An Indian radio astronomers-led team announced the discovery of 34 new giant radio sources.
- ❖ Many of these GRSs are among the best known, with two of them pushing against the previously accepted theories regarding their environments.

- ❖ J0843+0513 and J1138+4540 is challenging the notion that GRSs grow only in low-density environments.
- ❖ They used data from TIFR GMRT Sky Survey Alternative Data Release 1 at 150 MHz.
- ❖ Giant radio sources are likely to be the largest single structures in the universe, with end-to-end extents of millions of light years.
- ❖ They are driven by supermassive black holes with masses ten million to a billion times that of the Sun, residing at the centre of the host galaxy.

MAKING WAVES	
<ul style="list-style-type: none"> ➤ Indian radio astronomers use the Giant Metrewave Radio Telescope to discover 34 new giant radio sources, among the most distant objects of its type ➤ The study was recently published in the Astrophysical Journal Supplement Series of the American Astronomical Society ➤ The team of astronomers comprised two PhD students – Netai Bhukta (SKBU, India) and 	 <ul style="list-style-type: none"> Souvik Manik (MCC, India), and two astronomers – Sabyasachi Pal (MCC, India) and Sushanta K Mondal (SKBU, India) ➤ The team's recent discovery was based on the TIFR GMRT Sky Survey Alternative Data Release 1 ➤ They used TGSS for their research due to its low frequencies and sensitivity of the GMRT

Kindlins - Adapter Proteins



- ❖ Kindlins are the adapter proteins that exist inside the cells attached to the cell membranes of almost all types of cells in vertebrates.
- ❖ This protein is central to many signalling pathways, targeting it could lead to new cancer treatments that address multiple aspects of the disease at once.

- ❖ Kindlins may undergo mutations under the influence of innumerable chemical and physical carcinogens like nicotine, ultraviolet rays and many more.
- ❖ Mutated Kindlin can potentially disrupt global mechanical homeostasis within cells.
- ❖ Therefore, understanding the consequences of genetic alterations in Kindlins holds the key to unravelling the intricate mechanisms leading to the growth of cancer cells.

ENVIRONMENT

Four-Ringed Butterfly

- ❖ A four-ringed butterfly belonging to a family with most members in China has resurfaced in India after 61 years.
- ❖ The great four-ring (*Ypthima cantliei*) is a species of Satyrinae butterfly.
- ❖ It was last reported in 1957 from (eastern) Assam's Margherita.
- ❖ The family Nymphalidae has some 6,000 species of butterflies.
- ❖ Of this 35 *Ypthima* species recorded in India, 23 have been reported from the northeast.
- ❖ Arunachal Pradesh has more than 600 of the 1,327 species of butterflies recorded in India so far.



STATES

All Crops under MSP

- ❖ Haryana government announced that 24 crops in the state would be procured on Minimum Support (MSP).

- ❖ Out of the 24, around 10 are crops which are not extensively grown in the state.
- ❖ This was making Haryana the first state in India to do this on such a wide scale.
- ❖ The procurement will cost the government around Rs 123.65 crore.
- ❖ Wheat, paddy and maize are the main crops that are largely procured by the government on MSP.



SPORTS

Vinesh Phogat disqualification

100g too heavy
What the rules say on weigh-in and Vinesh's disqualification



Vinesh before the weigh-in.

- For each weight class, bouts are held over a two-day span
- Weigh-ins take place in the morning for wrestlers competing that day
- A wrestler who enters the final or repechage has to weigh-in on both days
- During the first weigh-in, wrestlers will have **30 minutes** to make weight
- For the second weigh-in, the window is **15 minutes**
- Wrestlers can get on the scale as many times as they wish
- Contestants are weighed with their singlets and nothing else
- **Two kg weight tolerance** is allowed for World Cup and other International tournaments
- However, **Olympics follow a strict weight restriction**
- Vinesh was 49.9kg on Tuesday morning and fought three bouts over the course of the day
- She registered a weight of 52.7kg after the semifinal
- On Wednesday morning, Vinesh weighed 50.1kg

■ **Despite last-ditch efforts from her coaches and support staff, Vinesh could not shave off the 100g**

- ❖ The Indian wrestler Vinesh Phogat was disqualified before the women's 50kg freestyle final at the Paris Olympics after failing to make weight.

- ❖ The disqualification means Phogat will not receive a medal.
- ❖ In the event of a disqualification of a finalist, no silver medal is awarded and the gold goes to the other finalist.
- ❖ Vinesh had scripted history by becoming the first Indian woman wrestler to reach the gold medal bout.
- ❖ Vinesh was found to be 100 grams over the weight limit during the morning weigh-in.
- ❖ As per the United World Wrestling's rule book's Article 11, "If an athlete does not attend or fail the weigh-in, he/she will be eliminated of the competition and ranked last, without rank."

IMPORTANT DAYS

National Bone and Joint Day 2024 - August 04

- ❖ It aims to raising awareness about bone and joint health.
- ❖ It was initiated by the Indian Orthopaedic Association (IOA) in 2021.
- ❖ The day emphasises mobility and bone strength, and the crucial role bones and joints play in maintaining an active and healthy lifestyle.



Hiroshima Day 2024 - August 06

- ❖ This year, the world is commemorating the 79th anniversary of the day.
- ❖ It observes the tragic anniversary of the atomic bombing of Hiroshima, Japan, by the United States during World War II in 1945.
- ❖ The bombing, conducted by the B-29 bomber, nicknamed "Little Boy," exploded approximately 600 meters above Hiroshima.



❖ The explosion resulted in the deaths of an estimated 140,000 people.

The bomb was nicknamed "**Little Boy**"

4,000°C
The heat was so intense that people were vapourised

What Hiroshima looked like before and after the bombing

On Aug 6, 1945, the US dropped an atom bomb on Hiroshima, Japan, razing an entire city within minutes; a tribute to the people who died

The 'Little Boy' that Killed 130,000 People

200,000 survivors still suffer discrimination due to public ignorance about radiation illness

Three days later, the US dropped a second nuclear weapon, called "**Fat Man**", on Nagasaki **killing another 70,000 people**

