

July - 27

TNPSC BITS

- ❖ Each year National Mango Day is observed on July 22 to celebrate the fruit.
- ❖ Eldhose Paul becomes first Indian to qualify for triple jump final in World Athletics Championship 2022, held at USA.
- ❖ Neeraj Chopra makes history by winning silver medal in the javelin throw for the first time ever at the World Athletics Championships 2022, held at USA.
 - He becomes first-ever Indian to win silver at World Athletics Championships.
- ❖ The CSIR-National Institute for Interdisciplinary Science and Technology (CSIR-NIIST), Thiruvananthapuram, will host an International Conference on Chemistry and Applications of Soft Materials (CASM).
- ❖ Mountaineer Wasifa Nazreen became the first person from Bangladesh to climb the second-highest mountain peak K2.

NATIONAL

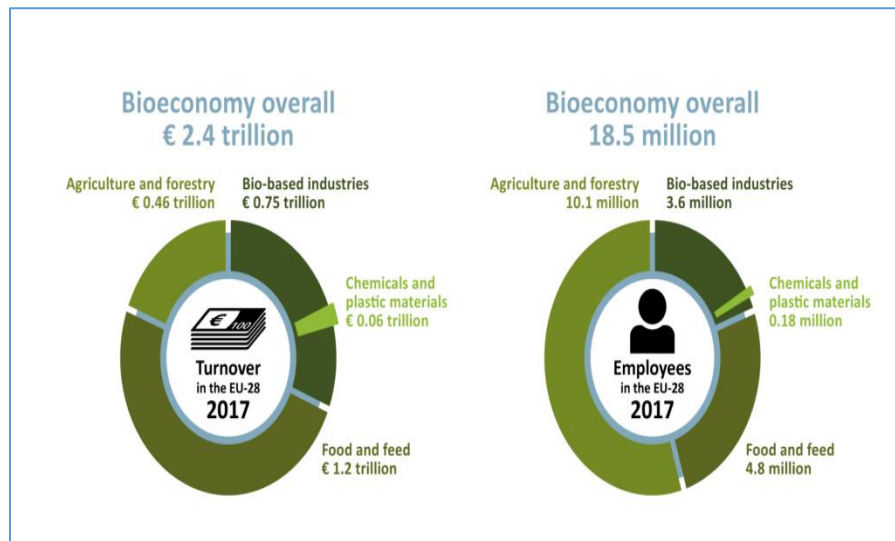
Oath - Draupadi Murmu

- ❖ Draupadi Murmu was sworn in as India's 15th President at the Central Hall of Parliament in Delhi.
- ❖ She was sworn in by Chief Justice of India (CJI) N V Ramana.
- ❖ She was given a 21-gun salute after which she signed the oath register.
- ❖ The new commander-in-chief of the armed forces inspected a tri-services guard of honour in the forecourt of the Rashtrapati Bhavan.
- ❖ She created history by being the first tribal President and the second woman to occupy the country's highest constitutional post.
- ❖ She is India's youngest President at 64 and the first to be born after Independence.
- ❖ She was born to a Santali family on June 20, 1958, in Rairangpur, Mayurbhanj district, Odisha.
- ❖ Her name given by her family was Puti Tudu.
- ❖ She was renamed by her school teacher to Draupadi.
- ❖ Murmu was sworn in as the Governor of Jharkhand in 2015.
- ❖ Thus, she became the first woman governor to that state.

- ❖ She was the first female tribal leader from Odisha to be appointed as a Governor of the Indian State.



Indian Bioeconomy Report 2022



- ❖ The Biotechnology Industry Research Assistance Council (BIRAC) recently released its “India Bioeconomy Report 2022”.
- ❖ India’s bioeconomy is expected to reach USD 150 billion by 2025 and more than USD 300 billion by 2030.
- ❖ In 2021, India’s bioeconomy has touched USD 80 billion, accounting for a growth of 14.1 per cent growth.
- ❖ It was 70.2 billion USD in 2020.
- ❖ Three biotech start-ups were set up every day, on an average, in 2021.

- ❖ Thus, 1128 biotech start-ups were set up in 2021.

INTERNATIONAL

Monkeypox - global emergency

The epidemiology of the current monkeypox outbreak

Nearly all monkeypox outbreaks in the endemic countries have been due to the virus jumping from animals to humans

4 A very small number of sexually-associated transmissions in the MSM community is sufficient to cause a large outbreak as currently seen

1 Men who have sex with men (MSM) have always been at risk of a sustained outbreak. The reason why this had not happened earlier might be because the virus had not reached this community, given the very few imported cases in non-endemic countries

5 Without sufficient interventions, there may be continued growth in cases among men who have sex with men

2 A small fraction of MSM individuals who have a large number of partners increase the risk of rapid spread of the virus to many people in the MSM community

6 Monkeypox virus can infect anyone. The heterosexual population too will be affected if the spread of the virus is not contained

3 Up to 10,000 additional cases may be observed if a substantial number of infections are introduced into the non-MSM sexual contact network

7 The basic reproduction number (RO) for monkeypox in the MSM network may be over 1, which makes containment of the outbreak a challenge



8 Tailored and non-stigmatising messaging/support for those at highest risk would be key to earliest containment

Vital difference: Sustained human-to-human transmission of monkeypox virus has been rare in the endemic countries

- ❖ The World Health Organisation has declared the global monkeypox outbreak as a 'public health emergency of international concern' (PHEIC).
- ❖ It is one step below that of a 'pandemic.'
- ❖ On January 30, 2020, the organisation had categorised COVID-19 as a PHEIC.
- ❖ On March 11 that year, the agency elevated it to 'pandemic.'
- ❖ The PHEIC declaration is to be "temporary" and reviewed every three months.
- ❖ In the past, Ebola (2014), Zika virus (2016), H1N1(2009), the polio virus (2014) and Covid-19 have been declared a PHEIC.

SCIENCE AND TECHNOLOGY

“Wentian” space station modules

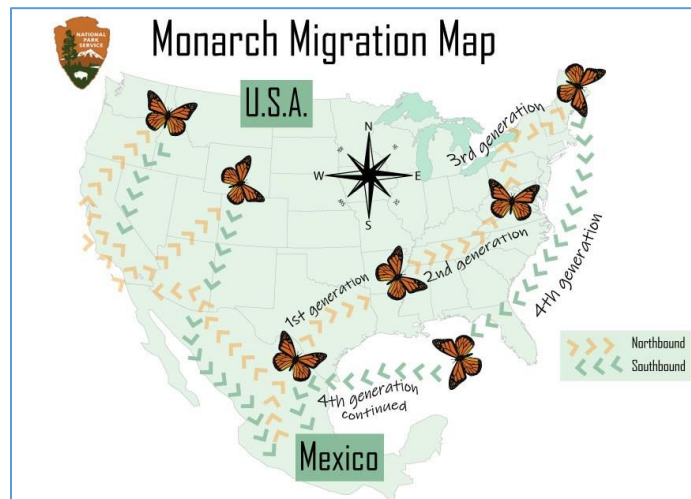
- ❖ China launched Wentian, the second of the three modules needed to complete its new space station.
- ❖ This was the most recent development in China’s ambitious space programme.

- ❖ In April 2021, Beijing launched the main module of the Tiangong space station, which is Chinese for “heavenly palace.”
- ❖ Tiangong should have a lifespan of at least 10 years.



ENVIRONMENT

Migratory monarch butterflies



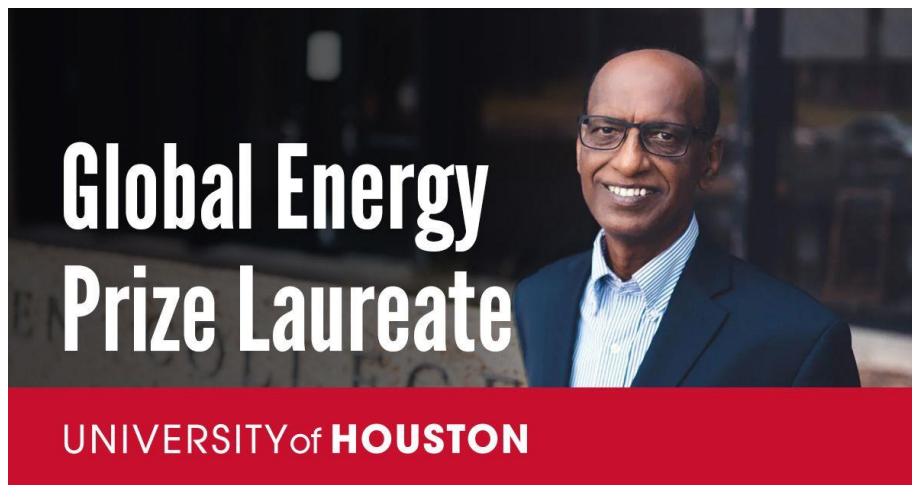


- ❖ The migratory monarch butterfly, has been classified 'endangered' in the International Union for Conservation of Nature (IUCN) Red List of Threatened Species.
- ❖ It is a sub-species of the monarch butterfly that travels around 4,000 kilometres across America each year.
- ❖ The number of the western monarchs, which live west of the Rocky Mountains, reduced 99.9 per cent.
- ❖ Its Population is falling to only 1,914 butterflies in 2021 from 10 million in the 1980s.
- ❖ The population of the eastern monarchs that migrate from eastern United States and Canada also shrunk 84 per cent from 1996-2014.

PERSONALITIES, AWARDS, AND EVENTS

Global Energy Prize 2022

- ❖ Kaushik Rajashekara, an Indian-origin professor, has won the prestigious Global Energy Prize.
- ❖ This is for his outstanding contributions to transportation electrification and energy efficiency technologies while reducing power generation emissions.
- ❖ The awarding ceremony will be held during Russian Energy Week in Moscow.



IMPORTANT DAYS

World Fragile X Awareness Day - July 22

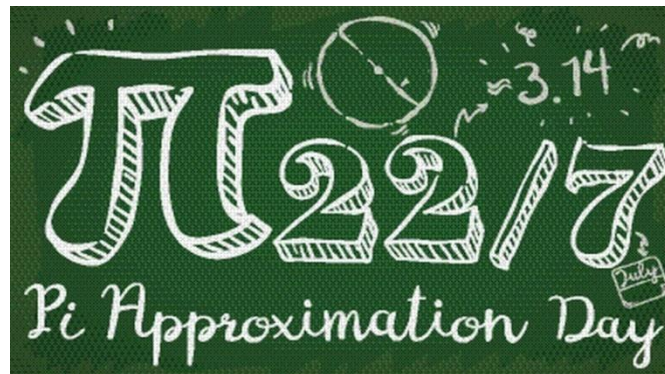
- ❖ It aims to celebrate families impacted by Fragile X and highlight the progress of research to find a cure.

- ❖ Fragile X syndrome causes mild to severe intellectual disability.
- ❖ The World Fragile X Day was initiated by the US-based FRAXA Research Foundation.



Pi Approximation Day - July 22

- ❖ The process of calculating the value of pi was a never-ending and non-terminating value.
- ❖ July 22 is observed as Pi Approximation Day, also called Casual Pi Day.
- ❖ Pi is also referred to as the Archimedes constant, which implies an infinite constant.
- ❖ The decimal value of pi is 3.14 was initiated by the physicist Larry Shaw in the year 1988.



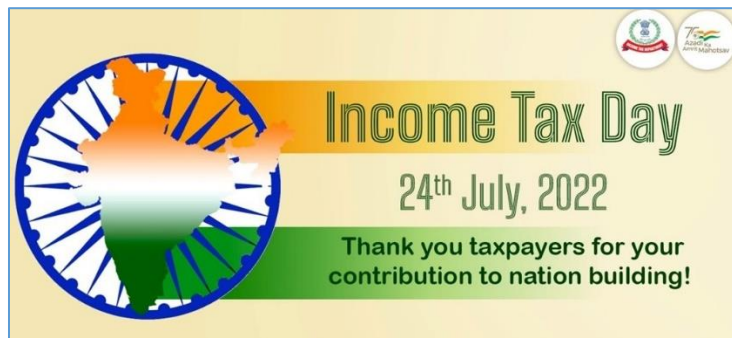
National Broadcasting Day - July 23

- ❖ It was on July 23, 1927 that All India Radio began its journey as a private company called Indian Broadcasting Company Ltd (IBC).

- ❖ Later, it was taken over by the British and transformed into All India Radio (AIR) on June 8, 1936.
- ❖ The name Akashvani (voice or announcement from the skies) was formally adopted for the national broadcaster in 1956.



Income Tax Day - July 24



- ❖ This date was chosen because income tax was first levied as a duty in India in 1860 on this very day.
- ❖ In 2010, the I-T department for the first time decided to celebrate this day to mark 150 years of levy of the tax.
- ❖ This year, it will be the 162nd occasion of National Income Tax Day.
- ❖ The first income tax was imposed in India in 1860 by Sir James Wilson.



- ❖ The Income Tax Act 1922 was introduced it laid a proper framework for the direct tax administration in the country.
- ❖ In 1924, the Central Board of Revenue was constituted as a statutory body with functional responsibilities for administering the Income Tax Act.
- ❖ In 1963, the Central Board of Revenue was bifurcated, and a separate Board for Direct Taxes known as Central Board of Direct Taxes (CBDT) was constituted under the Central Board of Revenue Act, 1963.

