

NATIONAL

1. CMV and ToMVvirus

Why in news - Tomato growers in Maharashtra and Karnataka have blamed two different virus attack for the loss of yields.

Key Points –

- Cucumber mosaic virus (CMV)- Maharashtra.
- Tomato mosaic virus (ToMV) – Karnataka.
- CMV is spread by aphids, which are sap-sucking insects.
- High temperature followed by intermittent rain allow aphids to multiply. It is conducive for the spread of CMV.
- Symptoms - alternating yellowish and dark green foliage, fruit develops necrotic spots (overripening) etc.

ToMV –

- Virgaviridae family.
- Closely related to the tobacco mosaic virus (TMV).
- Affect - tomato, tobacco, peppers, and certain ornamental plants.

CMV –

- First identified in cucumber in 1934.
- Affect (larger host) - Cucumber, melon, eggplant, tomato, carrot, lettuce, celery etc.

Value addition –

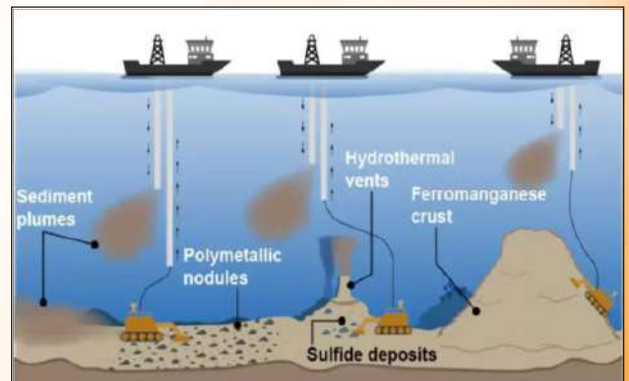
Plant diseases	Animal diseases
1. Tobacco mosaic	1. Foot and mouth disease of cattle
2. Cauliflower mosaic	2. Rabies of dog
3. Sugarcane mosaic	3. Encephalomyelitis of horse
4. Potato leaf roll	
5. Bunchy top of banana	
6. Leaf curl of papaya	
7. Vein clearing of Lady's finger	
8. Rice tungro disease	
9. Cucumber mosaic	
10. Tomato mosaic disease	

2. Deep sea mining

Why in news - International Seabed Authority could open the international seabed for mining.

Key Points –

- Meaning - removing mineral deposits and metals from the ocean's seabed.
- 3 types –
 - a) polymetallic nodules
 - b) sulphide deposits
 - c) stripping cobalt crusts from rock.
- Nodules, deposits and crusts contain materials, such as nickel, rare earth, cobalt, that are needed for batteries and renewable energy equipment.
- Under the United Nations Convention on the Law of the Seas (UNCLOS), seabed and its mineral resources are considered the "common heritage of mankind".
- Clarion-Clipperton Fracture Zone (4.5 million km²) - between Hawaii and Mexico.



INTERNATIONAL

1. Largest Phosphate mine

Why in news – Massive deposits of ultra-rich phosphate rock, vanadium and titanium discovered in Norway.

Key Points –

- Discovered by - Norge Mining.
- Amount - 70 billion metric tons of phosphate rock.
- Can meet the rising global demand for at least the next 100 years.
- Phosphate - an essential element used for production in the fertilizer industry for the production of phosphorous.
- Phosphorous uses - solar panels, next-generation lithium batteries for electric cars, semiconductors, and computer chips.

- Phosphorous features - higher energy density, enhanced safety, and longer life span than their lithium-ion counterparts.

Value Addition –

- Biggest phosphate rock deposits (till date) - Morocco (50 billion tonnes)>China (3.2 billion tonnes)>Egypt (2.8 billion tonnes)>Algeria (2.2 billion tonnes).



ECONOMY

1. Trade in services for development report

Why in news – The report was released by World Trade Organisation (WTO) and World Bank.

Key Points –

- India's share in global commercial services exports - 4.4% in 2022. (2% in 2005).
- China (3.0% to 5.4%) and India doubled their share of global commercial services exports from 2005 to 2022.
- India hosted around 3.5 million foreign patients (medical tourism) from 2009 to 2019.

Value Addition –



SCIENCE – TECH

1. Carbon molecules in space

Why in news - The CH₃⁺ molecule has been detected in space for the first time by the James Webb Space Telescope (JWST).

Key Points –

- CH₃⁺ molecule is also known as methyl cation.
- Complex organic molecules like amino acids are formed from simpler ones, like CH₃⁺, or methylum.
- CH₃⁺ molecule was found in the light coming from Orion Nebula.
- Everything that makes us and all life on Earth is carbon-based.
- CH₃⁺ is a very simple organic molecule, with just one carbon atom and 3 hydrogen atoms. (building blocks for life in space).

SUMMITS & CONFERENCES

1. 23rdSCO Summit

Why in news - The Shanghai Cooperation Organisation (SCO) meeting of heads of states was held virtually on July 4, 2023.

Key Points –

- India hosted the summit for the first time.
- Theme - SCO-SECURE.
- S: Security, E: Economic development, C: Connectivity, U: Unity, R: Respect for sovereignty and territorial integrity, and E: Environmental protection.
- It concluded with the New Delhi Declaration calling for de-radicalization, sustainable lifestyle, production of millets and digital transformation.
- Iran was granted full membership.

About SCO (Hq - Beijing)

- Members -China, Kazakhstan, Kyrgyzstan, Russia, Tajikistan, Uzbekistan, India and Pakistan.
- Regional Anti-Terrorist Structure (RATS) –
 - Formed on June 7, 2002 in St. Petersburg.
 - Executive Committee is based in Tashkent.
 - Aim - to promote cooperation of member states against terrorism, separatism and extremism.

- Cultural and Tourism Capital of SCO for 2022-23 – Varanasi.



BIHAR

1. Krishna Nandan Singh

Why in news - Dr. Krishna Nandan Singh was made Additional Solicitor General (ASG) of Patna High Court.

Key Points –

- The post of ASG is not constitutional.
- The post of ASG is governed by Law Officers (Conditions of Service) Rules, 1987.

2. Subhash Chandra Bose Residential School

Why in news - Education Department has decided to provide free boys hostels for needy and economically weak children.

Key Points –

- To be opened in 7 districts of Bihar.
- 7 districts - Patna, Muzaffarpur, Jamui, Nawada, Gaya, Banka and Aurangabad.

3. Bharat Bhushan Award

Why in news - Anamika Anu is awarded with the highest award 'Bharat Bhushan Award' in the field of Indian poetry.

Key Points –

- Anamika Anu is a famous poet as well as a successful translator.
- Anu's poetry collection - 'Enjikari'
- Her new book - 'Yarekh'.
- 'Yarekh' is a compilation of 36 love letters of Hindi writers.
- She was also awarded 'Mahesh Anjum Yuva Kavita Samman' for the year 2023.
- She is a resident of Muzaffarpur, Bihar. But currently she lives in Kerala.



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CURRENT AFFAIRS

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➤ CURRENT AFFAIRS ONE LINERS ◀

- Under whose leadership a 13-member boxing team will represent India in the Asian Games 2023- **Nikhat Zareen and Lovlina Borgohain.**
- Which country has allowed the use of MDMA and magic mushrooms for the medical treatment of of certain mental health conditions – **Australia.**
- In which city will the 132nd Durand Cup tournament be organized – **Kolkata**
- 3-day International Conference on Green Hydrogen (ICGH-2023) was organized by which ministry - **Ministry of New and Renewable Energy.**
- Which country inaugurated "Arkadag", a \$5 billion 'smart city' – **Turkmenistan.**
- Who has been awarded the 'Best Foreign Player' in France's Ligue 1 for the 2022-23 season - **Lionel Messi.**
- Which city has been selected as a host city for the FIFA Club World Cup 2023 – **Jeddah.**
- Who has won the Lausanne Diamond League 2023 title in Switzerland, finishing first with a throw of 87.66m - **Neeraj Chopra.**
- Who has virtually inaugurated Alluri Sitarama Raju Smriti Vanam developed at Bhimavaram - **President Droupadi Murmu.**
- The G-20 Research and Innovation Initiative Gathering (RIIG) Summit and Research Ministers' Meeting held in which city – **Mumbai.**

PATNA CENTRE: NEW BPSB BATCHES STARTING FROM 28TH JUNE 2023 TIMING 4:00PM - 07:00 PM (HINDI MEDIUM) AND 12TH JULY 2023 (TIMING 4:00 PM - 7:00 PM (ENGLISH MEDIUM)

DELHI CENTRE: NEW BPSB BATCHES STARTING FROM 5TH JULY 2023 TIMING 8:00AM - 12:00 PM (HINDI MEDIUM) AND 12TH JULY 2023 (TIMING 4:00 PM - 8:00 PM (ENGLISH MEDIUM)