

DAILY pre PARE

Current affairs summary for prelims

08 July, 2022

<u>Wolbachia</u>

Context

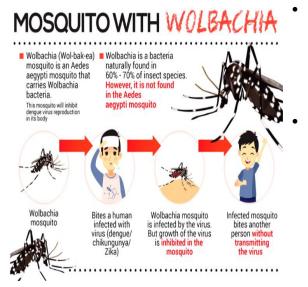
Scientists at the Vector Control Research Centre (VCRC) of Indian Council of Medical Research (ICMR) have cross-bred local Aedes aegypti mosquitoes with mosquitoes that carry the Wolbachia bacteria from Australia's Monash University.

* Key Highlights

- Scientists had acquired two strains of the Aedes aegypti eggs harbouring Wolbachia - wMel and wAlb
 from Monash University with the approval of the Indian government.
- Colonies of mosquitoes were raised from these eggs in labs and females were mated with Aedes aegypti males of the Puducherry strain.

About Aedes Aegypti

• The Aedes aegypti mosquito is the main transmitter of dengue, zika, chikungunya and yellow fever viruses.



Only **female mosquitoes** bite humans and thus only they can transmit viruses. The mosquito **originated in**

Africa, but has spread through tropical and subtropical regions around the world.

 They first spread during the slave trade between the 15th and 19th centuries, then through trade with Asia during the 18th and 19th centuries, and then again following troop movements in World War II.

✤ About Wolbachia

- They are extremely common bacteria that occur naturally in 50 % of insect species, including some mosquitoes, fruit flies, moths, dragonflies and butterflies.
- They live inside insect cells and are **passed from one** generation to the next through an insect's eggs.
- Aedes aegypti mosquitoes don't normally carry Wolbachia, however many other mosquitoes do.
- Wolbachia is safe for humans and the environment.
- * How Wolbachia Prevents Spread of Diseases
- When Aedes aegypti mosquitoes carry Wolbachia, the bacteria **compete with viruses** like dengue, Zika, chikungunya and yellow fever.
- This makes it harder for viruses to reproduce inside the mosquitoes. And the mosquitoes are much less likely to spread viruses from person to person.
- * What if Males Alone Wolbachia are Released?
- When such males mate with the wild females, it will lead to the **production of sterile eggs**.
- This way one can actually eliminate the mosquito populations, but it is not desirable.
- Mosquitoes play an important role as pollinators and in the food chain.
- Mosquito larvae grow by consuming microorganisms such as algae and microbes that decompose decaying plant material.
- Larval mosquitoes serve as food sources for many predators, including fish and birds.

RBI Measures to Arrest Rupee Decline

Context

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To prevent the slide in the rupee and shore up foreign exchange reserves, the Reserve Bank of India (RBI) announced a series of measures.

✤ <u>Background</u>

<u>Measures</u>

- Forex reserves have reduced by \$50 BN in over nine months.
- CONCERNING INDICATORS 75
 75
 76.0887
 Inverted scale
- Rupee has depreciated 4.1 % to 79.30 against the US dollar in the current financial year till date.
- Easing rules for foreign investors to invest in government and corporate debt in India.
- Exempted banks from maintaining cash reserve ratio and statutory liquidity ratio on incremental foreign currency and rupee-denominated term deposits raised from non-resident Indians between 1 July and 4 November, 2022.
 Removal of the ceiling on interest rates on these deposits between 7 July and 31 October, 2022.



FPIs (foreign portfolio investors) have pulled out Rs 2.32 lakh crore in six months.

Nearly a third of India's external debt of \$ 621 billion will be due for maturity in the coming months.

- Doubling the annual overseas borrowing limits for companies to \$1.5 billion.
- Temporarily abolishing interest-rate caps for banks to attract deposits from non-resident Indians.

Fully Accessible Route (FAR)

- FPI investment in government bonds under FAR has no limits, unlike other securities.
- Currently, only 5-year, 10-year and 30-year G-secs are designated under FAR.
- RBI has allowed new issuances of 7-year and 14year government securities under the fully accessible route (FAR).

Face to Face Centres

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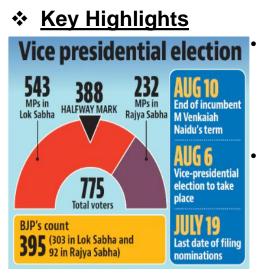
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Vice President of India

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Context

Recently, The Election Commission of India issued the notification for the election of the Vice President of \triangleright India.



The term of office of Vice President M Venkaiah Naidu comes to an end on August 10. election The is

scheduled for August 6, and July 19 is the last for filing date nominations.

* Office of the Vice President

- Article 63: There shall be a Vice-President of India
- Article 64: The Vice-President "shall be ex officio Chairman of the Council of the States" (Rajya Sabha).
- Article 65: Vice-President shall act as President in the vacancy of office of the President until the new President is elected.

Eligibility

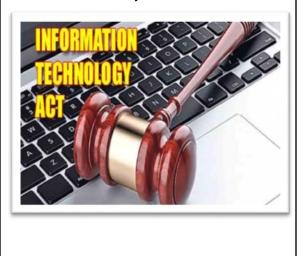
Article 66(3): No person shall be eligible for election as Vice-President unless he :



- is a citizen of India a) has completed the age b) of thirty-five years
- qualified for C) is election as a member of the Council of States.

- He should not hold any office of profit under the Union government or any state government or any local authority or any other public authority.
- ✤ Term of Office
- Article 67 : Vice-President shall hold office for a term of five • years from the date on which he enters upon his office.
- The Vice President can resign at any time by sending a letter of resignation to the President.
- He can hold office beyond his terms of five years until his successor takes office.
- Election of Vice President
 - **Constitutional Provisions:**
 - Article 66 deals with provision of the Election of the Vice-President.
 - Election to the office of the Vice-President is **conducted by** the Election Commission of India.
- Method of Voting:
 - The Indian Vice President is elected through an electoral college system.
 - It follows the system of proportional representation utilizing a single transferable vote system and secret ballots.
- **Electoral College:**
 - Elected and nominated members from Lok Sabha and Rajya Sabha only.
 - It does not include the members of the state legislative assemblies.
- **Disputes:**
 - Any disputes related to the election of the Vice-President are inquired into and decided by the supreme court whose decision is final.

	News in Between the Lines
Section 69 (A) of the IT Act, 2000	 Context Recently, Twitter initiated legal action against some of the government missives ordering it to take down certain content posted on the microblogging site. Government issued this order under Section 69 (A) of IT act 2000.



<u>tion 69 (A) of the II Act, 2000</u>

- Section 69A of the IT Act was introduced by an amendment to the Act in 2008. It allows the Center to issue blocking orders to social media intermediaries in the interest of : Defense of India.
 - Sovereignty and integrity of India.
 - Security of the state.
 - Friendly relations with foreign states or
 - Public order or for preventing incitement to the commission of any cognisable offense relating to above.
- As per rules for blocking orders are sent to a review committee, which then issues these directions.
- Blocking orders issued under the aforesaid section are usually confidential in nature.

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Derecho	 Context Recently, States of Nebraska, Minnesota and Illinois in the US were hit by a
DRY AIR BRY AIR THUNDERSTORM DOWNBURST	 storm system called a derecho. About Derecho A derecho is a widespread, long-lived, straight-line windstorm. It is associated with a "band of rapidly moving showers or thunderstorms". The name comes from the Spanish word 'la derecha' which means 'straight'. Straight-line storms are those in which thunderstorm winds have no rotation unlike a tornado. These storms travel hundreds of miles and cover a vast area. A derecho generally occurs during summertime beginning May, with most hitting in June and July. They mostly occur across central and eastern parts of the United States.
Nominated MPs in	 Context Recently, The government nominated 4 persons to Rajya Sabha.
Rajya Sabha	 Key Highlights The new 4 entrants to Rajya Sabha are: Musician Ilaiyaraaja, track-and-field icon PT Usha, Telugu screenwriter V Vijayendra Prasad, and philanthropist and spiritual leader Veerendra Heggade to Rajya Sabha. The Upper House of Parliament now has nine nominated members.
COMPOSITION OF RAJYA SABHA 250 Seats - 238 representatives of States and UTs	 Nominated MPs Constitutional Provision for Nominating MPs: As per Article 80 (Part V) of the Constitution, the President can nominate 12 members in the Council of States (Rajya Sabha). These persons should have special knowledge or practical experience in the field of Art, Science, Literature and Social Service. Iterature and Social Service.
elected indirectly, 12 nominated by President	 Role: They enjoy all the powers and privileges to which the elected MPs are entitled. They can take part in the proceedings of the House in the normal manner.
Allocation of Rajya Sabha seats depends on the population of the state/UT Rajya Sabha, the permanent house, never gets dissolved completely.	 Nominated members are not allowed to vote in the election of the President. They do have the right to vote in the election of the Vice-President. Significance: The nomination facilitates the representation of eminent professionals and experts who cannot face direct elections.
Sun Temple	 Context For the Archaeological Survey of India (ASI) is restoring the Sun Temple in Konark, Odisha and is likely to be completed within a month. Key Highlights
	 The restoration work was started in 2021. The Jagmohan or the assembly hall of the temple is restored with newly-carved.



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stones.

* About Sun Temple

• It was built in the 13th century.

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- The sun temple was conceived as a gigantic chariot of the Sun God, with 12 pairs of exquisitely ornamented wheels pulled by seven horses.
- It was built by King Narasimhadeva I, the great ruler of the Ganga dynasty.
- The temple was included in UNESCO World Heritage Site in 1984.
- It is a perfect blend of Kalinga architecture, heritage, exotic beach and salient natural beauty. It is protected under the National Framework of India by the Ancient Monuments and Archaeological Sites and Remains (AMASR) Act (1958) and its Rules (1959).
- This temple was also known as 'BLACK PAGODA' due to its dark colour

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	 This was used as a navigational landmark by ancient sailors to Odisha. The Jagannath Temple in Puri was called the "White Pagoda".
<section-header></section-header>	 Context The Assam cabinet has decided to grant indigenous status to five Assamese-speaking Muslim communities from the state to distinguish them from Bengali-speaking Muslims. Key Highlights The five communities are Goria, Moriya, Deshi, Julah and Syed. For several years, indigenous Muslims in Assam have been seeking a separate classification that distinguishes them from Muslims who migrated to the state from East Pakistan (now Bangladesh).
National Advisory Committee for Animal Husbandry प्रापालन, डेपरी और मत्स्यपालन विभाग Department of Animal Husbandry, Deirying & Fisheries	 Context The Union Ministry of Fisheries, Animal Husbandry and Dairying (FAHD) has announced the formation of a National Advisory Committee for the Animal Husbandry and Dairying sector encompassing several industry experts and business leaders. Key Highlights The newly formed committee will be chaired by the Union Minister for FAHD, and co-chaired by the Minister of State FAHD. The 48-member committee will meet once every quarter in a financial year to discuss, recommend, prescribe and advise policies regarding the sectors.
Sodium Ion Batteries	 Context Scientists at IIT Kharagpur with support from DST, have used nano-materials to develop Na-ion-based batteries and supercapacitors and have integrated them in e-cycles.



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Key Highlights ❖

- Sodium iron phosphates and sodium manganese phosphates were combined with various novel architectures of carbon to develop a battery.
- Sodium-ion (Na-ion) batteries have triggered academic and commercial interest as a possible complementary technology to lithium-ion batteries because of several advantages -High natural abundance.
 - Low costs of Na-ion batteries.
 - High performing.

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- Can be scaled up to industrial-level production.
- Can be totally discharged to zero volt, similar to a capacitor, making it a safer option in comparison to many other storage technologies.
- Simpler disposal that can address climate mitigation issues.

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