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Daily Current Affairs Encyclopedia

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National and International News

The Hindu CA 31 March 2025 **Parker Solar Probe** Why in news? On March 22, 2025, NASA's Parker Solar Probe approached the Sun more closely, reaching 6 million km from its surface. The probe, launched in 2018, has set the record for being the closest spacecraft to the Sun and will continue making 24 close approaches to study solar activity. **Key Points:** Launched by NASA on August 12, 2018, from Cape Canaveral, Florida. Designed to study the Sun's corona, solar wind, and magnetic field to understand space weather and its effects on Earth. Moves in a highly elliptical orbit, using Venus' gravity assist to spiral gradually closer to the Sun. **Speed:** The fastest human-made object, reaching 692,000 km/hr. Mission Duration: Designed to complete 24 orbits around the Sun, with a mission extending into the 2030s. **Key Features:** o FIELDS: Measures electric & magnetic fields in the corona. ISolS (Integrated Science Investigation of the Sun): Observes energetic solar particles responsible for solar storms. o SWEAP (Solar Wind Electrons, Alphas & Protons): Records solar wind properties. WISPR (Wide-Field Imager for Solar Probe): Captures high-resolution images of the corona. **Uniform Civil Code (UCC)** Why in news? crackdown on Madrasas. the Uttarakhand ln government has sealed more than 136 such institutions This has drawn attention to the state's actions regarding issues related to the minority community, including laws like the Uniform Civil Code and the removal of Mazars. **Key Points:** A Uniform Civil Code refers to a single law for the entire country, applicable to all religious communities in their personal matters such marriage. divorce, as inheritance, adoption etc.

It is intended to replace the system of fragmented



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	personal laws, which currently govern interpersonal relationships and related matters within different religious communities. • Constitution of India on UCC • Article 44 of the Constitution lays down that the State shall endeavour to secure a Uniform Civil Code for the citizens throughout the territory of India. • These, as defined in Article 37, are not justiciable (not enforceable by any court) but the principles laid down therein are fundamental in governance. • These principles consist of all the ideals which the State should follow and keep in mind while formulating policies and enacting laws for the country.
SpaceX Starship	 Why in news? Recently, Elon Musk, CEO of SpaceX, announced on X that an uncrewed Mars landing mission will occur by the end of next year. The mission is expected to feature Optimus, a robot developed by Tesla, another company owned by Musk, as its passenger. Key Points: Starship is a two-stage fully reusable super heavy-lift launch vehicle under development by American aerospace company SpaceX. Starship is the collective name for a two-component system consisting of the Starship spacecraft (which carries the crew and cargo) and the Super Heavy rocket. It is the world's most powerful launch vehicle ever developed, capable of carrying up to 150 metric tonnes fully reusable and 250 metric tonnes expendable. The vehicle comes in several different configurations, offers an integrated payload section and is capable of carrying crew and cargo to Earth orbit, the Moon, Mars and beyond. It is also capable of point-to-point transport on Earth, enabling travel to anywhere in the world in one hour or less. Starship is powered by six engines, three Raptor engines, and three Raptor Vacuum (RVac) engines, which are designed for use in the vacuum of space.
Operation Brahma	 Why in news? After a devastating earthquake ravaged Myanmar recently, India initiated its relief and rescue efforts in the country under the banner 'Operation Brahma'. Key Points: It is India's humanitarian mission launched in response







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	to the devastating 7.7-magnitude earthquake that struck Myanmar. The large-scale humanitarian mission includes rescue teams, medical aid, and relief supplies. The National Disaster Response Force (NDRF) deployed an 80-member team equipped with concrete cutters, drill machines, plasma cutters, and other rescue tools. The Indian Army dispatched a specialized 118-member medical team from the elite Shatrujeet Brigade Medical Responders. As part of the mission, the Indian Army will set up a 60-bed Medical Treatment Centre to provide immediate care to those injured in the disaster. The facility will be equipped to handle trauma cases, emergency surgeries, and essential medical services to support Myanmar's strained healthcare system. Two Indian naval ships, INS Satpura and INS Savitri, were dispatched carrying 40 tonnes of humanitarian aid to the port of Yangon.
Launch Vehicle Mark-3 (LVM3)	Why in news? ISRO has announced significant progress in the design and development of a semicryogenic engine, a liquid oxygen/kerosene engine with a high thrust of 2,000 kN (kilonewton), which will power the semicryogenic booster stage of the Launch Vehicle Mark-3 (LVM3). Key Points: The LVM3 is a dedicated commercial mission for a foreign customer OneWeb, through NewSpace India Limited (NSIL), a Central Public Sector Enterprise (CPSE). It is the first multi-satellite mission with 36 OneWeb Satellites to the LEO as the heaviest Payload mass of 5,796 kg. of LVM3 till date. This newest rocket is capable of launching 4,000-kilogram class of satellites into GTO (Geosynchronous Transfer Orbit) and 8,000 kgs of payloads into LEO. It is a three-stage launch vehicle consisting of two solid propellant S200 strap-ons on its sides and core stage comprising L110 liquid stage and C25 cryogenic stage. Advantages: Handling of multiple satellite separation events Increased nominal mission duration Ensuring safe separation distance through C25 (cryo) stage re-orientation & velocity addition Ensuring data availability for entire mission duration Realisation of new payload adaptor and interface ring for the satellites dispenser









India-US Relations

Why in news?

 Top trade officials from India and the U.S. have reached a broad understanding on the next steps toward a bilateral trade agreement (BTA), paving the way for sectoral expert-level engagements.

Key Points:

- The relationship between India and the United States has evolved into one of the most significant partnerships in the 21st century.
- It spans economic, strategic, and cultural dimensions, reflecting the shared values and mutual interests of the world's largest democracies
- The two nations are motivated by common interests: India aims to become the world's third-largest economy, while the US seeks reliable allies to counterbalance China's growing influence.
- Defense Ties:
 - In 2018, India was elevated to Strategic Trade Authorization tier 1 status, which allowed India to receive license-free access to a wide range of military and dual-use technologies regulated by the US's department of commerce.
 - The signing of foundational agreements like LEMOA (2016), COMCASA (2018), and BECA (2020) has enabled deeper military cooperation.
 - Joint exercises like Malabar and the establishment of the 2+2 Ministerial Dialogue in 2018 have further strengthened strategic ties.
- Recent initiatives like the US-India Artificial Intelligence Initiative and the Critical and Emerging Technology Initiative (iCET) launched in 2022 underscore the strategic importance of tech cooperation in bilateral ties.





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