



December - 01

TNPSC BITS

- Army Chief General Manoj Pande received a Guard of Honour at the Les Invalides in Paris.
- India Malaysia joint military Exercise "Harimau Shakti -2022" commenced at Malaysia.
- The bilateral training exercise "AUSTRA HIND 22" between contingents of the Indian Army and the Australian Army begins in Rajasthan.
 - $\circ~$ This is the first exercise in the series of AUSTRA HIND with participation of all arms and services contingent from both armies.

NATIONAL



IPR for 'Combat uniform'

- Indian Army registered for Intellectual Property Rights (IPR) of the new design and camouflage pattern uniform to establish the ownership.
- The new digital pattern combat uniform for Indian Army soldiers was unveiled on 15 January 2022 (Army Day).
- ◆ The improved uniform has a contemporary look and functional design.





The fabric has been made lighter, stronger, breathable, quick-drying, and easier to maintain.

<image>

Guest for Republic Day celebrations

- Egyptian President Abdel Fattah Al Sisi will be the chief guest at the Republic Day in January 2023.
- Mr. Sisi will be the first such guest since 2020, as plans for guests in 2021 and 2022 were cancelled due to COVID-19.
- This is the first time that the President of the Arab Republic of Egypt will be the Chief Guest at our Republic Day.
- Both countries are celebrating the 75th anniversary of the establishment of diplomatic relations this year.
- Also, Egypt has been invited as a 'Guest Country' during India's Presidency of G-20 in 2022-23.
- Leaders of friendly nations have graced the Republic Day celebrations since 1950.
- Then Indonesian President Sukarno was invited as the first chief guest in 1950.
- ✤ In 1952, 1953 and 1966, the Republic Day celebrations were held without a foreign leader as chief guest.
- Former U.S. President Barack Obama (2015), Russian President Vladimir Putin (2007) are the other special invitees in the past.





✤ In 2020, the then Brazil president Jair Bolsonaro was the chief guest.

Third Ship of Survey Vessel 'Ikshak'

- Indian Navy's third Survey Vehicle 'Ikshak' has been launched in Chennai.
- ◆ This is the third of the third of the four Survey Vessels (Large) (SVL) Project.
- The ship has been named 'Ikshak' which means 'Guide'.
- The ship has been named to signify the contribution of the Survey ships towards facilitating safe passage for Mariners at Sea.
- The first of class ship 'Sandhayak' was launched on 05 Dec 21 at GRSE in Kolkata.



INTERNATIONAL

Exercise 'Naseem Al Bahr'

- The Indian Naval Ship (INS) Trikand, INS Sumitra, and Maritime Patrol Aircraft (MPA) Dornier, participated in the 13th Edition of 'Naseem Al Bahr' at Oman.
- It is a bilateral maritime exercise between Indian Navy (IN) and Royal Navy of Oman (RNO).





- ✤ It had three phases: harbour phase, sea phase and debrief.
- ✤ The first IN-RNO exercise was conducted in 1993.
- Year 2022 marks 30 years of IN-RNO bilateral exercises.



SCIENCE AND TECHNOLOGY



- The Indian Space Research Organisation (ISRO) successfully placed nine satellites in multiple orbits by its Polar Satellite Launch Vehicle (PSLV-C54).
- ✤ It includes an Earth Observation Satellite (EOS-06) and 8 nanosatellites.

PSLV-C54 rocket





- The eight nano satellites include ISRO Nano Satellite-2 for Bhutan (INS-2B), Anand, Astrocast (four satellites), and two Thybolt satellites.
- EOS-6 is the Oceansat series' third-generation satellite.
- EOS-06 is envisaged to observe ocean colour data, sea surface temperature and wind vector data to use in oceanography, climatic and meteorological applications.



India's first private space vehicle launchpad

- Chennai-based space tech startup Agnikul Cosmos has launched India's first private launchpad and mission control centre at the Satish Dhawan Space Centre, Sriharikota.
- The facility has two parts—the Agnikul launchpad and the Agnikul mission control centre
- The launchpad was designed to accommodate and support liquid stagecontrolled launches.
- The Chennai-based startup plans to launch its Agnibaan rocket from this launchpad.





- Agnibaan is a two-stage launch vehicle that is capable of taking payloads of up to 100 kilograms to a low-earth orbit around 700 kilometres
- The Agnibaan rocket will be powered by the company's 3D-printed Agnilet engines.
- The Agnilet rocket is a "semi-cryogenic" engine that uses a mixture of liquid kerosene and supercold liquid oxygen to propel itself.

STATES

India's First Integrated Rocket Facility

- Telangana's will have the country's first integrated rocket Facility in Hyderabad by Skyroot Aerospace.
- ✤ It would help design, manufacturing and testing of Rockets.
- Skyroot Aerospace wants to build high-technology, low-cost, reliable launch vehicles.



5G Services in all districts







- Jio has rolled out its True 5G network in every headquarters of Gujarat's 33 districts.
- This making it the first state in India to get 100 percent coverage of 5G Services in the state.
- It will also launch a series of True 5 G-powered initiatives across health, education, agriculture, industry 4.0, and Internet of Things (IoT) sectors in Gujarat.

SPORTS

Annual Madras-Colombo Rowing Regatta

- The Madras Boating Club women won the 81st Annual Madras-Colombo Rowing Regatta, which was held in Colombo, Sri Lanka.
- They were awarded the Adyar Trophy.
- The Men's category was bagged by Colombo Rowing Club, and they were awarded Deepam Trophy.



MISCELLANEOUS

Yak - food animal

- The Himalayan yak has been accepted as a food animal by the scientific panel of Food Safety and Standard Authority of India (FSSAI).
- The categorisation is expected to help check the decline in the population of the high-altitude bovine animal by making it a part of the conventional milk and meat industry.
- Yaks are traditionally reared under a transhumance system which is primitive, unorganised and full of hardship.





- ✤ According to 2019 census, India has some 58,000 yaks.
- ◆ It is a drop of about 25% from the last livestock census conducted in 2012.
- ✤ Yak milk contains 78-82% water, 7.5-8.5% fat, 4.9-5.3% protein, 4.5-5.0% lactose and 12.3-13.4% solids-not-fat.
- Mostly consumed locally, yak meat is known to be lean.
- ◆ The meat contains 74.8% moisture, 21.7% protein, 1.5% crude fat and 1.2% ash.



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