Prelim Bits 25-10-2023 | UPSC Daily Current Affairs

Preventive detention

Supreme court, in at least 3 separate instances, has red-flagged the Telangana government's usage of the stringent preventive detention law.

Preventive detention	Pre-trial detention	Punitive detention
Detention of a person ***without trial*** and conviction by court, but merely on suspicion.	Detention of an accused ***under trial***.	Detention ***after trial*** and conviction by a court.

- **Preventive detention -** To prevent an individual from committing an offense in the future.

  Article 22 of the Indian Constitution contains provisions for preventive detention.

- **Central Legislations** - The National Security Act, the Conservation of Foreign Exchange and Prevention of Smuggling Activities Act, 1974 (COFEPOSA) are examples of laws under which preventive detention can be ordered.
- **Suspension of Fundamental rights -** Part III of the Constitution gives the state the power to *suspend fundamental rights* for preventive detention.
- A detainee under preventive detention can have no right of personal liberty guaranteed by *Article 19 or Article 21*.
- **Grounds for Preventive Detention**
  - Security of state, maintenance of public order,
  - Maintenance of supplies and essential services and defense,
  - Foreign affairs or security of India.
- **Duration -** The detention of a person cannot exceed ***3 months*** unless an advisory board (consist of judges of a high court) reports sufficient cause for extended detention.
- **Rights for Detenu -** The grounds of detention should be communicated to the detenu.
- However, the facts considered to be against the public interest need not be disclosed.
- The detenu should be afforded an opportunity to make a representation against the detention order.
- **Judicial Review** - There are very narrow grounds of judicial review because the Constitution emphasises the state's "***subjective satisfaction***" when ordering a detention.
- In countries such as Britain, United States and Canada, preventive detention is a wartime measure.

References

The Indian Express | How preventive detention works?

Ghost particles

*China is building the World's largest neutrino detector called "**Trident**" in the Western Pacific Ocean.*

- **About - Neutrinos**, also known as the Ghost Particles, are a type of electron but they ***do not have any charge***.
- **Family -** Neutrinos belong to the family of particles known as ***leptons***. There are 3 main leptons, namely electrons, muons and tau particles.
- **Symbol -** Neutrinos are denoted by the Greek symbol **ν**, or **nu**.
- **Mass -** They are among the most abundant and tiniest particles in the universe and ***have very small mass***.
- **Source -** Neutrinos come from all kinds of different sources and are often the product of heavy particles turning into lighter ones, a process called ***decay***.
- **Interactions -** Neutrino's weak charge and almost non-existent mass have made it difficult to observe and impossible to track.
- **Underwater Telescope** - Neutrinos sometimes interact with water molecules that is why ***China*** is building its ghost molecule telescope ***underwater***.

Currently, the largest neutrino-detecting telescope is the University of Madison-Wisconson's "IceCube" telescope situated in the Antarctic.

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1. The Indian Express | world's largest 'ghost particle' detector
2. NDTV | Scientists Detect 'Ghost Particles'
3. Space | what are neutrinos?

Vikram 1 Rocket

Hyderabad-based space startup Skyroot Aerospace has recently unveiled 'Vikram-1' with an expected space launch in early 2024.

Vikram-1
• **Stages -** Multi-stage launch vehicle • **Body -** All-carbon-fibre. • **Payload -** 300 kg payloads • **Orbit -** Low Earth Orbit.

- **Fuel -** Mixture of solid fuel at the lower stage and a mixture of liquid fuel in the upper

stages to propel the rocket into the orbit.
- It has a Raman-II engine in the 4th stage.
- The Raman-II engine is regeneratively cooled and uses Mono Methyl Hydrazine and Nitrogen Tetroxide as propellants.
- It also features ***3D-printed liquid engines***.
- The Vikram-1 is expected to perform its first flight to space in the first quarter of 2024. It will launch satellites.
- It is the second rocket from the company after ***'Vikram-S,'*** the country's first privately-built rocket.
- The 'Vikram' in the launch vehicles' name is a tribute to ***Vikram Sarabhai***, the father of India's space programme.

References

1. The Hindu | Vikram 1
2. Hindustan Times | Vikram 1
3. Times of India | Skyroot unveils Vikram-1

International Migration Outlook 2023

India saw the highest migration flows to OECD countries in 2021 and 2022, according to the 'International Migration Outlook 2023' released recently.

- The 2023 edition of International Migration Outlook analyses recent developments in migration movements and the labour market inclusion of immigrants in OECD countries.
- It also monitors recent policy changes in migration governance and integration in OECD countries.

Organisation for Economic Co-operation and Development (OECD) is an association of 38 member countries, most being rich developed nations that attract migrant workers and students.

- **India -** India saw the highest migration flows to OECD countries in 2021 and 2022.
- India replaced China as the main country of origin of new migrants to OECD countries in 2020.
- In 2021, for the 2nd consecutive year, India, with 0.41 million new migrants, was the top country of origin.
- India was followed by China and Romania interms of new migrants.
- **Inflows of refugees** - Due to the ongoing Russia-Ukraine war, inflows of refugees from Ukraine reached the highest level on record.

References

1. Down to Earth | Indians migrated to OECD countries
2. OECD | International Migration Outlook 2023

Vajra Mushti Kalaga

Vajra Mushti Kalaga, a martial art form of the Wadiyars was in declining trend.

- The ‘’vajra mushti kalaga’’ is a form of wrestling different from the conventional grappling.
- It is a traditional Indian martial art that uses a small metal weapon called a knuckleduster. The name literally means "Thunderbolt Fist".
- It entails two jettys taking a swipe at each other’s head with a knuckleduster.
- The art incorporates various hand-to-hand combat techniques, such as grappling, wrestling, and striking.
- Vajra Mushti matches are still held during the annual Mysore Dasara festival at Mysore Palace.
- The tradition dates back to the Wadiyar dynasty in 1610.
- Modern combatants use knuckle-dusters with blunt studs. The weapon is sometimes called Indra-musti, which means "Indra's fist".
- Whosoever draws the blood from the opponent’s head first is declared the winner.
- Medieval travellers from Portuguese noticed this form of wrestling during the Navaratri celebrations in Vijayanagar empire and have left detailed accounts of it.

References

The Hindu | ’vajra mushti kalaga’

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