

the Nation.

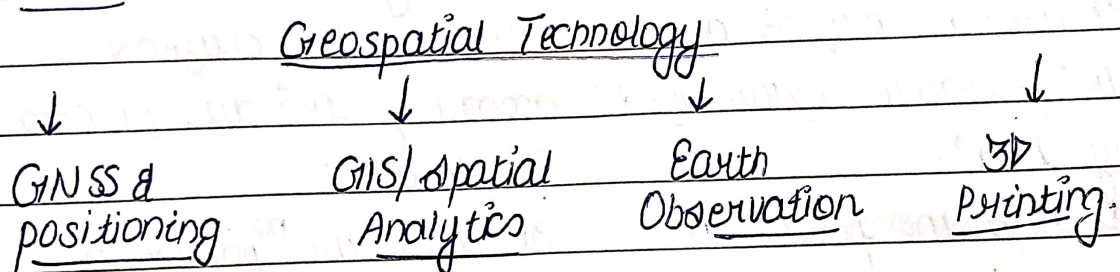
IAS Parliament.

26/9/23.

Q. Geospatial Intelligence? Discuss the applications of Geospatial intelligence in various fields (150 words)?

Geospatial Intelligence is the collection and integration of data from various technologies like satellites, GIS, sensors, GPS, Remote sensing for Geographic Mapping and analysis.

Recently, Ministry of Science and Technology has notified the National Geospatial policy 2022.



Applications of Geospatial Intelligence

- In Defence and Military purposes.

- Disaster Management and Response can be managed and identification of damaged area.

- Emergency preparedness: Monitoring of Natural disasters such as cyclone, floods etc.
- Transportation and logistics: Utilizing GPS for transportation enhancement & better logistics operations.
- Environment Monitoring: Tracking climate related variables and giving alert to early warning system.

Measures for the development of Geospatial:

National Geospatial Policy, 2022

Yuktahara Portal

Guidelines for Geospatial Data, 2021

In Union Budget, use of Kisan Drones.

Challenges

(1) Hacking information: Information integrated by such technology might be used by criminal and terrorists.

(2) Privacy issues: Cyber threat and breach to privacy will always remain as an issue.

WAY FORWARD

(1) Research and Development on such Technology and advancement should be continued.

(2) Funding is essential for the application of Geospatial technology.

(3) Trained and Dedicated team is required, to work on such technology.