



January - 19

TNPSC BITS

- ❖ The fifth edition of Science Film Festival of India 2020 was started Panaji, Goa.
- ❖ Khagendra Thapa Magar of Nepal, the world's shortest man (two feet and two inches) since 2010, has died recently.

NATIONAL

Supreme Court on Private Property

- ❖ The Supreme Court held that the citizen's right to own private property is a human right.
- ❖ The state cannot take possession of it without following due procedure and authority of law.
- ❖ In a welfare state, right to property is a human right.
- ❖ Grabbing private land and then claiming it as its own makes the state an encroacher.
- ❖ Property ceased to be a fundamental right with the 44th Constitution Amendment in 1978 inserting Article 300A.
- ❖ Nevertheless, Article 300A required the state to follow due procedure and authority of law to deprive a person of his or her private property.
- ❖ The right to property is now considered to be not only a constitutional or statutory right, but also a human right.
- ❖ A Bench of Justices Indu Malhotra and Ajay Rastogi declared this verdict.

Integrated Road Accident Database (IRAD)

- ❖ The database has been launched by the government.
- ❖ The system will be first piloted in the six States with highest fatalities from road crashes — Karnataka, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu and Uttar Pradesh.
- ❖ The IRAD mobile application will enable police personnel to enter details about a road accident, along with photos and videos, following which a unique ID will be created for the incident.
- ❖ It will help in analysing causes of road crashes and in devising safety interventions to reduce such accidents in the country.



- ❖ India sees the largest number of road fatalities in the world.

About

- ❖ It has been developed by the Indian Institute of Technology-Madras (IIT-M).
- ❖ It will be implemented by the National Informatics Centre.
- ❖ The project cost is being supported by the World Bank.

Commissionerate system

- ❖ Previously, only four cities had the Commissionerate system of policing: Kolkata, Mumbai, Hyderabad and Chennai.
- ❖ Now, it will be implemented in Lucknow and Noida of Uttar Pradesh.
- ❖ In the Commissionerate system, the Commissioner of Police (CP) is the head of a unified police command structure, is responsible for the force in the city, and is accountable to the state government.
- ❖ The system gives more responsibilities, including magisterial powers, to IPS officers of Inspector General of Police (IG) rank posted as commissioners.

Mechanism

- ❖ Policing is based on the Police Act of 1861.
- ❖ Under the colonial system, the overall in-charge of a district or region was the district collector; the SP reported to him.
- ❖ But under the Commissionerate system, the commissioner does not report to the District Magistrate.
- ❖ Under the 7th Schedule of the Constitution, 'Police' is under the State list, meaning individual states typically legislate and exercise control over this subject.
- ❖ In the arrangement in force at the district level, a 'dual system' of control exists, in which the Superintendent of Police (SP) has to work with the District Magistrate (DM) for supervising police administration.
- ❖ At the metropolitan level, many states have replaced the dual system with the Commissionerate system, as it is supposed to allow for faster decision-making to solve complex urban-centric issues.

Where

- ❖ Almost all states barring Bihar, Madhya Pradesh, UT of J&K, and some North eastern states have a Commissionerate system.
- ❖ The British brought the system first in Kolkata and followed it in Mumbai and Chennai presidencies.
- ❖ Delhi turned into a Commissionerate during the Morarji Desai regime.

SCIENCE AND TECHNOLOGY

GSAT 30

- ❖ India's telecommunication satellite GSAT-30 was successfully launched into a Geosynchronous Transfer Orbit (GTO) on January 17, 2020 from Kourou launch base, French Guiana by Ariane-5 VA-251.
- ❖ It is configured on ISRO's enhanced I-3K Bus structure to provide communication services from Geostationary orbit in C and Ku bands.

GSAT-30 Launch Successful

India's communication satellite GSAT-30, built by ISRO, was successfully launched by the Ariane 5 VA-251 rocket from Kourou launch base in French Guiana on Jan 17, 2020. It will replace the INSAT-4A satellite

Applications

- GSAT-30 will be extensively used for supporting VSAT networks, television uplinking & teleport services, Digital Satellite News Gathering (DSNG), DTH-television services, cellular backhaul connectivity and many such applications
- It will also provide extended coverage in C-band, which will help television broadcasters to beam their programmes over India, Gulf countries, large number of Asian countries and Australia

Salient Features

Type of satellite : Communication	Lift-off weight: 3,357 kg
Payload: Ku-band and C-band transponders	
Coverage area: Ku-band for Indian mainland and islands C-band for wide coverage	
Mission life: Over 15 years	Orbit: Geostationary

KBK Infographics

- ❖ Weighing 3357 kg, GSAT-30 is to serve as replacement to INSAT-4A spacecraft services with enhanced coverage.
- ❖ The satellite provides Indian mainland and islands coverage in Ku-band and extended coverage in C-band covering Gulf countries, a large number of Asian countries and Australia.
- ❖ The designed in-orbit operational life of GSAT-30 is more than 15 years.

H9N2 Virus

- ❖ India's first case of Avian influenza or Bird flu caused by a rare variety of H9N2 virus has been reported at Maharashtra.
- ❖ The infection is caused by a rare variety of H9N2 virus, which is a subtype of the influenza A virus that leads to human influenza as well as bird flu.
- ❖ The viruses are found in wild birds and are endemic in poultry in some countries.

Artemis Mission

- ❖ Artemis is the name of NASA's program to return astronauts to the lunar surface by 2024.
- ❖ NASA wants to send the first woman and the next man to the Moon, specifically at the lunar south pole region, by the year 2024.
- ❖ Indian American Raja Chari is among the one who joined in that mission.



ENVIRONMENT

Genome of Indian cobra

- ❖ An international team of researchers have sequenced the genome of the Indian cobra.
- ❖ In the Indian cobra genome, the researchers have identified 19 key toxin genes, the only ones that should matter in snakebite treatment.
- ❖ This genome sequence can provide a blueprint for developing more effective anti-venom.
- ❖ In India, the challenge has been producing anti-venom for the species known collectively as the “big four”

- The Indian cobra (*Naja naja*),
 - Common krait (*Bungarus caeruleus*),
 - Russell's viper (*Daboia russelii*), and
 - Saw-scaled viper (*Echis carinatus*).
- ❖ These 4 species are not found in northeastern India but the region reports a significant number of snake bites.
 - ❖ India is the snakebite capital of the world.
 - ❖ India alone accounts for about 50,000 deaths annually, and these are primarily attributed to the “big four”.

STATES

Z Morh tunnel

- ❖ A Concession Agreement for completing the 6.5-kilometre long Z-Morh tunnel in Jammu and Kashmir was signed in presence of Road Transport and Highways Minister Nitin Gadkari.
- ❖ Z-Morh Tunnel will provide all-weather road connectivity to Sonmarg tourist spot in Jammu and Kashmir.
- ❖ It will be two lane bi-directional road tunnel between Gagangir and Sonmarg on NH 1.
- ❖ It mostly remains closed during the winters due to heavy snowfall.
- ❖ Z-Morh Tunnel is a road tunnel between Srinagar and Kargil in Ladakh region of India.
- ❖ The tunnel gets its name from its Z formation between Sonamarg and Gagangir.





Ashfaqullah Khan Zoo

- ❖ The Uttar Pradesh Cabinet approved a proposal for construction of a zoological garden named after Shaheed Ashfaqullah Khan in Gorakhpur.
- ❖ At present, there are two zoological gardens in Uttar Pradesh, one in Lucknow and another in Kanpur.
- ❖ Freedom fighter Ashfaqullah Khan was sentenced to death along with Ram Prasad Bismil for the Kakori train robbery, commonly known as the Kakori conspiracy of 1925.

PERSONALITIES, AWARDS, AND EVENTS

'Model Sports Villages

- ❖ Bahadurpur and Kheri Viran of Uttar Pradesh are set to become India's first 'Model Sports Villages'.
- ❖ It is a part of Institute of Management Technology (IMT) Ghaziabad's plan to evolve a sports culture in the country.

