

Current affairs summary for prelims

02 May 2023

BCG Vaccine

Context

➤ The BCG vaccine, typically administered to prevent tuberculosis, did not provide any significant protection against Covid-19 infection to healthcare workers, a new study said.



Key Highlights

- The clinical trial to repurpose the BCG vaccine against Covid-19 started during the early days of the pandemic when there were fewer ways to treat Covid-19.
- The current study was supposed to have 10,000 participants from five countries and continue for 12 months, but was stopped once mRNA vaccines were developed.
- The paper reported the results of a trial where 4,000 adults were observed over six months.
- The BCG vaccine has existed for over 80 years and is part of India's Universal Immunisation Programme.
- The vaccine contains weakened strains of Mycobacterium tuberculosis.
- It is administered to fight against **tuberculosis**, **meningitis** and other respiratory tract infections.

❖ Meningitis

- Meningitis is an infection and inflammation of the fluid and membranes surrounding the brain and spinal cord.
- These membranes are called meninges.
- The inflammation from meningitis typically triggers symptoms such as headache, fever and a stiff neck.
- Most cases of meningitis in the United States are caused by a viral infection.
- But bacteria, parasites and fungi also can cause it.
- Route of Transmission Most bacteria that cause meningitis such as meningococcus, pneumococcus and Haemophilus influenzae are carried in the human nose and throat.
- Some cases of meningitis improve without treatment in a few weeks. Others can cause death and require emergency antibiotic treatment.
- In 2021, **WHO** launched the first-ever global strategy to defeat meningitis 'Global Roadmap to Defeat Meningitis by 2030'.

About Tuberculosis Disease

- TB is an infectious disease caused by the bacillus Mycobacterium tuberculosis.
- It typically **affects the lungs (pulmonary TB)** but can also affect other sites like the brain, eyes and spine.
- The disease is spread when people who are sick with pulmonary TB expel bacteria into the air, for example by coughing.
- Directly observed treatment (DOTs) :
 - Short-course (DOTS, also known as TB-DOTS) is the name given to tuberculosis (TB) control strategy recommended by the World Health Organization.
 - It was also deployed by India to curb the menace of TB.

❖ Govt Initiative: Dare2eraD TB

- The government announced the launch of Data-Driven Research to Eradicate TB- "Dare2eraD TB" by the Department of Biotechnology, M/o Science & Technology, on the occasion of World TB Day in 2022.
- Dare2eraD TB will be the umbrella TB program of DBT comprising of following key initiatives -
 - InTGS Indian Tuberculosis Genomic Surveillance Consortium
 - InTBK Hub- Indian TB Knowledge Hub-Webinar Series
 - Host Directed therapies against TB and developing an evidence-based regimen for treating extra-pulmonary Tuberculosis.
- Indian Tuberculosis Genomic Surveillance Consortium (InTGS) is proposed on lines of the Indian SARS-CoV-2 Genomic Consortia (INSACOG) for Whole Genome Sequencing, (WSG) TB surveillance.

Bihan Mela

Context

Since 2019, members of the Kondh tribe in Odisha's Nayagarh district have added one more event, Bihan Mela to their calendar of festivals and celebrations.



Key Highlights

- Bihan Mela means the seed festival.
- The event is participated by farmers from as many as 40 villages in Dasapalla block, sorrounded by hills and forests.
- Preparations begin as soon as farmers have harvested kharif crops, which includes both hybrid and indigenous varieties of paddy, millets, maize and sorghum.
- Women, who are at the helm of this festival, carefully collect seeds of the indigenous varieties and store them in earthen pots.
- Then, on a designated day in December, they decorate the pots with red and white motifs.
- They place them in a bamboo basket and carry it on head to the village where the fair is being organised.

- Along the way, they are accompanied by men beating drums and other traditional instruments.
- · Significance:
 - Farmers in the Kondh Villages of Odisha are mostly marginal and depend on the monsoon rains.
 - In recent years, they have seen repeated crop failures either due to erratic rainfall or pest attacks.
 - The seed festival was thus introduced to help farmers return to their traditional ways of farming like mixed cropping.





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Melanistic Tiger

❖ Context

A rare melanistic tiger was found dead in the core area of Similipal Tiger Reserve (STR) area.



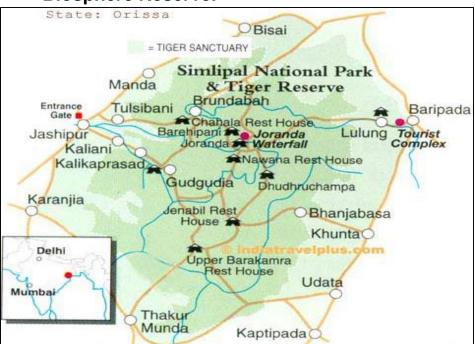
❖ About Melanistic Tiger:

- Melanistic tigers, also known as **black tigers**, are a rare color variant of the Bengal tiger and other tiger subspecies.
- The STR first reported the presence of melanistic tigers in 2007. The 2016 tiger census revealed six such tigers in the reserve.
- They have a genetic condition called melanism, which results in an excess of dark pigment in the skin and fur, making the tiger appear black.
- It is estimated that only about 1 in 10,000 tigers is melanistic.
- The tiger, Panthera tigris, is listed as 'Endangered' on the IUCN Red List of Threatened Species.
- Despite their rarity, melanistic tigers have not been recognized as a separate subspecies, as their black coloration does not appear to affect their behavior or ecological role in the same way that other color variants, such as white tigers, do.

Similipal Tiger Reserve:

- Similipal Tiger Reserve is a protected area and wildlife sanctuary located in the **Mayurbhanj district** of Odisha, India.
- It was established in 1956 and covers an area of 2,750 square kilometers.
- The reserve is named after the Similipal hill range, which is situated in the center of the reserve.

- The reserve is home to a variety of flora and fauna, including tigers, elephants, leopards, wild boars, barking deer, sambar deer, gaurs, and many other species of mammals, birds, and reptiles.
- The park is also famous for its beautiful waterfalls, including the **Barehipani** and **Joranda waterfalls**, which are among the tallest waterfalls in India.
- Similipal Tiger Reserve is one of the largest tiger reserves in India and is also a designated UNESCO Biosphere Reserve.



Kaladan Multimodal Transit Transport project (KMTTP)

❖ Context

➤ The waterway part of the Kaladan Multimodal Transit Transport project will become operational in May 2023, 15 years after it was approved.

Key Highlights:

- The project is aimed at boosting trade and commerce between India and Myanmar and easing access to other South Asian countries.
- It will also provide a strategic alternate link connecting the landlocked northeastern states to the rest of India and easing the pressure on the existing narrow Siliguri corridor.
- The port will transport bulk cargo such as cement, pulses, and food grains.
- KMTTP connects Kolkata to Sittwe port, which
 is further linked to Paletwa in Myanmar
 through a waterway route along the river
 Kaladan.
- A 110 km road is being built from Paletwa to Zorinpui at Mizoram on the Indo-Myanmar border.
- Zorinpui is further connected to Lawngtlai through a 100 km road, and an existing highway connects it to Aizawl, which in turn is linked to other northeastern cities, including Guwahati.









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Hate Speech

Context

Recently, the Supreme Court directed States to suo motu register FIRs on hate speech incidents and proceed against offenders without waiting for someone to lodge a complaint.



Key Highlights

- There is **no specific legal definition** of 'hate speech'
- In general, hate speech is considered a limitation on free speech that seeks to prevent or bar speech that exposes a person or a group or section of society to hate, violence, ridicule or indignity.
- Provisions in law criminalise speeches, writings, actions, signs and representations that foment violence and spread disharmony between communities and groups and these are understood to refer to 'hate speech'.
- Indian Laws With Respect to Hate Speech
- In the 267th Report of the Law Commission of India, hate speech is stated as an incitement to hatred primarily against a group of persons defined in terms of race, ethnicity, gender, sexual orientation, religious belief and the like.

- Sections 153A and 153B of the IPC: Punishes acts that cause enmity and hatred between two groups.
- Section 295A of the IPC: Deals with punishing acts which deliberately or with malicious intention outrage the religious feelings of a class of persons.
- Sections 505(1) and 505(2): Make the publication and circulation of content which may cause ill-will or hatred between different groups an offence.
- Section 8 of RPA Act 1951: Prevents a person convicted of the illegal use of the freedom of speech from contesting an election.
- Sections 123(3A) and 125 of the RPA: Bars the promotion of animosity on the grounds of race, religion, community, caste, or language in reference to elections and include it under corrupt electoral practices.

<u>Irretrievable Breakdown of Marriage</u>

Context

Recently, the Supreme Court of India ruled that it could use its discretionary powers under Article 142 of the Constitution to grant couples divorce by mutual consent, bypassing the mandatory six to 18-month cooling-off period.



Key Highlights:

- The court also said it could use this power to quash pending criminal or legal proceedings between the couples, wiping the slate clean for them to start afresh. The judgment noted that the existing law of divorce, which is built predominantly on assigning fault to one partner, fails to serve broken marriages.
- The court held that the Supreme Court could grant divorce on the ground of "irretrievable breakdown of marriage" using Article 142, if the separation is inevitable and the damage is irreparable.
- However, the court clarified that this power was not a matter of right but a discretion to be exercised with great care and caution.

- Factors such as the duration of the marriage, the period of litigation, and attempts at reconciliation would be considered before invoking Article 142 in matrimonial cases.
- The court held that the cooling-off period of six to 18 months was meant for couples to introspect, but in cases where divorce was inevitable, it only caused misery and pain without any benefit.
- Art 142: Under Article 142(1), the Supreme Court may pass decrees or orders "as is necessary for doing complete justice in any cause or matter pending before it.
- Note: A Constitution Bench comprising Justices Sanjay Kishan Kaul, Sanjiv Khanna, A.S. Oka, Vikram Nath, and J.K. Maheshwari pronounced the verdict.

Gangetic Dolphin

Context

Recently, thickly knitted fishing gill nets have caused the death of yet another river dolphin leaving the West Bengal fishery and the forest officials in jeopardy.



Key Highlights

Gill nets used indiscriminately in the **Bhagirathi** river by the fishermen communities have been killing the endangered Gangetic Dolphins over the years.

About Gangetic Dolphin

- It is one of five species of river dolphin found around the world. It is found mainly in the Indian subcontinent, particularly in Ganga-Brahmaputra-Meghna & Karnaphuli-Sangu river systems. An adult dolphin could weigh between 70 kg and 90 kg.
- The breeding season of the Gangetic dolphin extends from January to June.
- Ganges River Dolphin as the National Aquatic Animal of India.

Conservation Status:

- IUCN Red List-**Endangered**
- WPA Act 1972-Schedule 1
- **CITES- Appendix I**
- CMS- Appendix 2









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News in Between the Lines

Command Cyber Operations and Support Wings



❖ Context

➤ The Indian Army has decided to establish Command Cyber Operations and Support Wings (CCOSWs) and nominate Lead Directorates and Test Bed formations to incorporate niche technologies and enhance fighting capabilities, including in cyberspace.

Key Highlights:

- CCOSWs will aid the Indian Army in countering adversary cyber warfare capabilities and safeguarding networks.
- **Cyberspace** is now a crucial domain for conventional and grey zone operations, and CCOSWs will enhance readiness levels.
- The Indian Army is **rapidly transitioning** to net centricity, which relies on modern communication systems at all levels.
- To enhance fighting potential, the Army is incorporating a range of **tech-enabled equipment**, **including drones**, **loiter weapon systems**, and anti-drone apparatus.
- The Army Commanders Conference recognizes the importance of reviewing tech human resource capabilities to **maintain an effective and lethal fighting force**.
- The Army will modify the Technical Entry Scheme for BTech graduates to officers, shifting to the **3+1 TES model** from January 2024.
- The new four-year training model will ensure availability of young officers for an additional year, according to Army sources.

Shilabhattarika



❖ Context

Researchers at the Bhandarkar Oriental Research Institute (BORI) in Pune have recently decoded copper plate manuscripts belonging to the Chalukyan dynasty.

Key Highlights:

- These manuscripts provide new information about the 7th century Sanskrit poetess, Shilabhattarika, who was previously believed to be the wife of the 8th century Rashtrakuta ruler, Dhruva. However, the newly discovered information reveals that Shilabhattarika was actually the daughter of "Satyashraya", a title associated with the Chalukyan Emperor, Pulakeshin II of Badami.
- Shilabhattarika's poetry follows the **Panchali style**, which emphasizes the balance between words and their meanings.

Kalesar National Park



❖ Context

The Haryana forest department has initiated a search for the pug marks of a tiger that was captured in a camera trap in Kalesar National Park (KNP).

Key Highlights:

- Kalesar National Park is a protected area located in the Yamunanagar district of the Indian state of Haryana.
- The park covers an area of approximately **50 square kilometers** and is home to a diverse range **of flora and fauna**, including **tigers**, **leopards**, **elephants**, **and various species of deer**.

Context

Concerned over an increase in instances of cybercrime, Andhra Pradesh police recently asked the people to be wary of "bluebugging."

Bluebugging:

- Bluebugging is a technique that allows skilled hackers to access mobile commands on Bluetooth-enabled devices that are in discoverable mode.
- Once a device or phone is bluebugged, a hacker can listen to the calls, read and send messages and steal and modify contacts.
- Initially, bluebugging focused on eavesdropping or bugging a computer with Bluetooth capability. With the increasing use of smartphones, cybercriminals shifted to hacking mobile phones.
- This attack is often limited due to the range of Bluetooth connections, which goes up to only 10 meters. Some attackers use booster antennas to widen their attack range.

Bluebugging



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