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## **Mains Master**

The great Indian Internet shutdown: how access to the world wide web is curtailed

#### Context:

- Landmark Supreme Court Ruling (2020): Recognizing internet access as a fundamental right in the Anuradha Bhasin vs Union of India case. This established clear guidelines for any restrictions:
- O Temporary: Short-lived and not indefinite.
- o Limited: Focused on specific areas or services, not blanket shutdowns.
- Lawful: Based on proper legal procedures and justifications.
- Necessary: Demonstrating a genuine need for the restriction.
- o Proportionate: The restriction's impact balanced against the threat addressed.
- · Despite the ruling:
- o India leads in internet shutdowns: Maintaining the dubious title of "internet shutdown capital" globally.
- Occerns about compliance: Frequent reports of nonadherence to SC guidelines.

#### Importance of the Internet:

- · Multifaceted role: Essential for various aspects of life, including:
- Information and communication: Access to news, education. and social interaction.
- ° Economic activity: E-commerce, online businesses, and livelihoods dependent on the internet.
- Healthcare and education: Telemedicine, online learning platforms, and access to essential resources.
- · Economic impact:
- Significant contribution to GDP: Shutdowns cause tangible economic losses, exceeding \$2.8 billion in 2020.
- Digital divide widens: Marginalized communities disproportionately affected due to limited access to alternative technologies.

#### Key Issues:

- · Non-compliance with SC guidelines:
- Lack of transparency: Orders often not published, making legal challenges difficult and hindering public scrutiny.

- · Legal ambiguity: Absence of statutory recognition of SC directions creates confusion and inconsistency in implementation.
- Official awareness lacking: Insufficient understanding of SC guidelines among authorities leads to potential misuse.
- Excessive use of shutdowns:
- Wide range of justifications: Employed for various reasons, including protests, exams, and even rumors.
- Questionable necessity and proportionality: Critics argue many shutdowns lack justification or exceed necessary measures.
- o Disproportionate impact: Marginalized communities with limited broadband access are most affected by mobile data restrictions.
- · Limited alternatives:
- o Predominance of mobile data: 97% of internet users rely on mobile data, making restrictions highly impactful.
- o Accessibility issues: Broadband remains expensive and unavailable to many, creating unequal access during shutdowns.

### Supreme Court Rulings:

- Anuradha Bhasin judgment (2020): Established internet access as a fundamental right and outlined principles for any restrictions.
- Telecom Suspension Rules amendment (2020): Limited the maximum duration of internet shutdowns to 15 days, but fell short of addressing publication and review mandates as per SC quidelines.

#### Comprehensive Outlook:

- · Ensuring compliance with SC guidelines:
- o Transparency: Mandatory publication of suspension orders for accountability and legal challenges.
- o Clarity and enforcement: Statutory recognition of SC directions to eliminate ambiguity and ensure adherence.
- Official training: Raising awareness among authorities to prevent misuse and misinterpretations.
- Minimizing internet shutdowns:
- o Exploring alternatives: Utilizing targeted measures like website blocking or specific service restrictions before resorting to complete shutdowns.
- o Proportionality and necessity: Carefully assessing the severity of the situation and tailoring restrictions accordingly.
- o Bridging the digital divide: Investing in affordable and accessible broadband infrastructure to mitigate the impact on marginalized communities.













#### Rising tensions in the Korean peninsula

#### Historical Background:

- · Post-WWII Division: After World War II, the Korean peninsula was divided into North and South, with the North falling under Soviet influence and the South under U.S. influence.
- Korean War: The Korean War (1950-53) ensued due to ideological differences, reflecting the broader Cold War tensions. The conflict ended with an armistice, leaving the peninsula divided. **Nuclear Ambitions:**
- Intermittent Programs: North Korea's nuclear program witnessed intermittent agreements and breakdowns. Efforts by the international community aimed to curb its nuclear weapons
- Missile Tests: Despite periodic agreements, North Korea conducted six nuclear tests, showcasing advancements in its nuclear capabilities and delivery systems.

#### Diplomatic Attempts:

- Trump-Kim Meetings: In 2018-19, North Korean leader Kim Jong Un and then-U.S. President Donald Trump held three meetings in an attempt to pursue peace talks and denuclearization. However, these talks were ultimately unsuccessful.
- Consistent Missile Testing: North Korea, under Kim Jong Un's leadership, continued to demonstrate its missile capabilities through consistent testing, including advancements in delivery systems.

#### Recent Escalation:

- Reunification Goal Scrapped: On January 15, Kim Jong Un declared the abandonment of North Korea's decades-old goal of reunifying with the South and formally labeled South Korea as an
- Symbolic Monument Removed: A landmark monument in Pyongyang symbolizing the reunification ideal was taken down, reflecting a shift in North Korea's official stance.

### Military Actions:

- Diverse Missile Tests: North Korea intensified its military activities by testing various missile systems, notably a solid-fueled missile carrying a hypersonic warhead, showcasing advancements in strategic capabilities.
- Joint Drills: South Korea responded to North Korea's actions with joint military drills alongside the U.S. and Japan, aimed at enhancing their collective defense capabilities against North Korean

## Political Shift in South Korea:

- Election of President Yoon Suk Yeol: The conservative Yoon Suk Yeol assumed the presidency in South Korea, adopting a hawkish stance towards North Korea.
- Trilateral Cooperation: South Korea, the U.S., and Japan engaged in trilateral cooperation, coordinating efforts to deter and counter North Korea's aggressive moves.

## International Alliances and Conflicts:

- Sino-Russian Axis: North Korea deepened its ties with the Sino-Russian axis, aligning itself with these major powers.
- Russian Engagement: Russia increased engagement with North Korea, offering assistance in enhancing its space capabilities in exchange for arms supplies.
- China's Support: China, as North Korea's largest trading partner, expressed unwavering support amidst rising tensions, reinforcing their longstanding alliance.

## Global Concerns:

- Intersection with Global Conflicts: Tensions in the Korean Peninsula coincided with other global conflicts, including Russia-Ukraine and China-Taiwan.
- Distraction Strategy: North Korea's actions were perceived as a potential distraction in the global strategic competition, particularly as major powers focused on other conflicts.

#### Potential Consequences:

- · Unintended Escalation: Concerns rose regarding unintended consequences and the possibility of further escalation in the Korean
- Involvement of Major Powers: The involvement of major powers increased the stakes, with alliances and nuclear weapons playing a significant role in the dynamics.

#### Overall Implications:

- Geopolitical Impact: North Korea's actions and alliances reshaped the geopolitical landscape in the region.
- Intersection with Global Rivalries: Tensions in the Korean Peninsula intersected with broader global rivalries and conflicts. contributing to an increasingly complex international scenario.

## **Prelims Booster**

Kangaroo lizard species discovered in Western Ghats

- A new species of tiny lizards, Agasthyagama edge, has been discovered in the Western Ghats.
- The maximum snout-vent length of the Agasthyagama edge is 4.3
- The species was discovered in the southern Western Ghats at Kulamavu in Idukki.



New find: Agasthyagama edge or the northern kangaroo lizard.

- The lizards are poor climbers and are mostly terrestrial, found in areas with dense leaf litter cover.
- The findings have been reported in the Vertebrate Zoology, a scientific journal published by the Senckenberg Museum in Germany.
- The species has been named after the Evolutionary Distinct and Globally Endangered (EDGE) programme of the Zoological Society of London.
- •• The research team includes scientists from various institutions in India and abroad.

## First Lok Sabha without Deputy Speaker

## m Constitutional Provisions:

- Article 93 and 178 mandate the election of a Deputy Speaker in the Lok Sabha and Legislative Assembly respectively.
- Article 93 specifies the Deputy Speaker's role in the absence of the Speaker.

#### Historical Precedents:

- Traditionally, the government supports an opposition candidate for Deputy Speaker.
- Previous Deputy Speakers include Charanjit Singh Atwal, Kariya Munda, and M. Thambidurai.
- Role and Importance of Deputy Speaker:
- Shares responsibility with the Speaker in running the House.
- Holds the same powers as the Speaker and is the constitutional authority in the Speaker's absence.

## Appointment Process:

- Normally held within a week of the Speaker's election.
- Involves consultations with all parties to decide a consensus candidate.









Current Scenario and Concerns:

- Delay in Deputy Speaker Election since Speaker Om Birla's election in June 2019.
- Concerns raised about the Modi government's delay, possibly to avoid an opposition Deputy Speaker.

Supreme Court Intervention:

- The Supreme Court issued notices to the Union government and five state assemblies for failing to elect a Deputy Speaker, citing constitutional provisions and emphasizing the mandatory nature of the
- Public Debate and Media Coverage:
- The delay in electing a Deputy Speaker has sparked public debate and media coverage, highlighting constitutional requirements and concerns about breaching democratic norms.

## After four years of survey, India's snow leopard count put at 718

#### m Geographical Distribution:

- Ladakh: Home to the maximum number of snow leopards, with an estimated 477.
- Uttarakhand, Himachal Pradesh, Arunachal Pradesh, Sikkim, and Jammu and Kashmir also host significant populations.
- Global Context:
- The estimated 718 snow leopards in India represent 10-15% of the global population.
- Classified as 'vulnerable' by the IUCN, facing threats from free-ranging dogs, human-wildlife conflicts, and poaching.
- Survey Methodology:
- Utilized 1,971 camera traps and covered 13,450 km of trails surveyed for sians.
- Employed statistical methods by the Wildlife Institute of India to estimate individuals not captured on camera.
- Comparison with Tiger Surveys:
- Utilized a statistical approach akin to tiger surveys, providing a scientifically established baseline.
- Rigorously tested equations, minimizing reliance on guesswork.
- Collaborative Initiative:
- The survey involved collaboration between the World Wide Fund for Nature-India, Nature Conservation Foundation, Mysuru, and the Wildlife Institute of India.
- Initiated in 2019, the survey aimed to comprehensively assess the snow leopard population.
- Conservation Significance:
- The surveys have led to numerous sightings and increased interest from the Indian Environment Ministry and global conservation efforts.
- Provides a crucial baseline for future conservation efforts and contributes valuable data to the global understanding of snow leopard populations.

## India nominates 12 forts of Marathas for UNESCO World Heritage List

- Components of the Nomination:
- Includes a network of forts in Maharashtra and the Gingee Fort in Tamil Nadu.
- Extraordinary Fortification and Military System:
- Developed during the 17th to 19th centuries, showcasing distinctive fortification and military systems.

- Distributed across diverse regions, integrating landscape and unique physiographic characteristics.
- Nominative Forts and Protection:
- 12 forts chosen for the nomination, with eight protected by the ASI and four by the Directorate of Archaeology and Museums, Government of Maharashtra.
- III Historical Context:
- Originated during the reign of Chhatrapati Shivaji Maharaj in the 17th century and extended through subsequent rules until the Peshwa rule in 1818 CE.
- Cultural Property Nomination:
- Falls under the category of cultural property, emphasizing the historical and cultural significance of the Maratha Military Landscapes.
- 🏆 Recognition and Tentative List:
- The "Maratha Military Landscapes" is the sixth cultural property nominated for World Heritage status from Maharashtra.
- Included in the Tentative List of World Heritage sites in 2021.

## Astronomers spot unusual object that falls within the black hole 'mass gap'

## Discovery Context:

- Astronomers have made a unique discovery challenging easy explanation, likely sparking discussions.
- The finding revolves around neutron stars, with potential implications for understanding extreme matter.
- Neutron Stars and Black Holes:
- Neutron stars, among the densest objects, can collapse into black holes if sufficiently heavy. The study focuses on the boundary between neutron stars and black
- holes, aiming to find objects at this tipping point. Discovery Details:
- Location: Star cluster NGC 1851.
- Object Pair: A millisecond pulsar and a massive, invisible object.
- Observation: Conducted using the MeerKAT radio telescope in South
- Millisecond Pulsar as a Tool:
- Millisecond pulsars act as cosmic atomic clocks with stable spins. aiding precise measurements.
- Their stability allows for the detection of changes in spin influenced by gravitational fields or motion.
- Observation Results:
- The system, named NGC 1851E, revealed significant details about its orbits and mass.
- · Combined mass of almost four times that of the Sun, falling within the "black hole mass gap."
- 🔍 Black Hole Mass Gap:
- This gap lies between the heaviest neutron stars and the lightest black holes formed from stellar collapse, posing outstanding questions in astrophysics.
- Possible Explanations:
- The system suggests a pulsar orbiting around the remains of a merger of two neutron stars.
- Crowded stellar environment in NGC 1851 facilitates dynamic interactions among stars, potentially leading to such configurations.
- Ongoing Work:
- Continued efforts to identify the true nature of the companion are underway, holding promise for revealing insights into extreme environments in the universe
- Implications and Speculation:
- Speculation surrounds whether the discovery represents the lightest black hole, the most massive neutron star, or an unknown astrophysical
- The system provides a unique opportunity to explore matter in extreme conditions.









