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## 1 Ganga Water Sharing Treaty (Source: The Hindu)

The 1996 Ganga Water Sharing Treaty is a 30-year bilateral agreement between India and Bangladesh, signed in December 1996, to share the Ganga's water during the lean season (January 1–May 31). The treaty is scheduled to expire in December 2026.

### Why such an initiative?

- It ensures fair water distribution for both upstream (India) and downstream (Bangladesh) users, especially during low-flow periods.

### Key Features

- It regulates the flow of water at the Farakka Barrage in West Bengal.
- Projects will be selected through a transparent, competitive challenge process focused on results-oriented projects.
- We will encourage private sector participation through structured risk-sharing frameworks and by benchmarking service delivery standards.
- The fund will cover all cities with a population of 10 lakh or more.
- Central assistance will cover 25% of project costs.
- A minimum of 50% of the project cost should be raised from the market, including municipal bonds, bank loans, and public-private partnerships.
- A dedicated ₹5,000 crore corpus will enhance the creditworthiness of 4,223 cities.

### Fact you need to know

- Farakka Barrage is essential for maintaining the navigability of the Calcutta Port.
- Calcutta Port, or Syama Prasad Mookerjee Port, is India's oldest operating and sole major riverine port, situated on the banks of the Hooghly River.





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## 2 Border Gateway Protocol (BGP) (Source: The Indian Express)

*Border Gateway Protocol (BGP) is the routing protocol that powers the Internet, responsible for exchanging routing information between different networks (Autonomous Systems) to determine the most efficient paths for delivering Internet traffic.*

### How does it work?

- Routers in different Autonomous Systems establish a BGP connection (peering).
- They exchange information about reachable networks (IP prefixes).
- Each router evaluates multiple routes.
- The best route is selected using BGP attributes and policies.
- Routing information is continuously updated across the Internet.



### Associated Terms

- **BGP Hijacking:** This occurs when a network maliciously or accidentally broadcasts that it owns an IP address range that it actually doesn't. Traffic meant for a legitimate service (like a bank or social media site) gets routed to the wrong destination, potentially leading to data interception or total blackouts.
- **BGP Leaks:** A configuration error where an AS inadvertently announces a set of routing prefixes beyond its intended scope, causing massive traffic bottlenecks across the internet.



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## 3 Rani Lakshmibai (Manikarnika) (Source: The Indian Express)

*She was the queen of the princely state of Jhansi*

- Born in 1828 at Varanasi, Uttar Pradesh.
- At the age of 14, Manu got married to the Maharaja of Jhansi, Gangadhar Rao Newalkar. Hence, Manikarnika became Laxmibai, Rani of Jhansi.

### Way to Struggle

- After the death of her child, she adopted a son, Damodar Rao, from Gangadhar Rao's extended family.
- *In 1853, when the Maharaja of Jhansi died, Lord Dalhousie refused to acknowledge the (adopted) child and applied the Doctrine of Lapse, and annexed the state, which led to conflict as part of the 1857 revolt.*
- She died fighting on the battlefield on 17th June 1858.



### Need To Know

- When the Indian National Army started its first female unit (in 1943), it was named after the valiant queen of Jhansi.
- Doctrine of Lapse