







### 04 December 2024

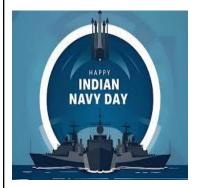
## **National and International News**

Indian healthcare market
projected to reach \$638
bn by 2025

### Context:

- A recent report by Bajaj Finserv AMC revealed that the Indian healthcare sector is growing rapidly and is projected to reach \$638 billion by 2025.
- Valued at \$110 billion in 2016, the Indian healthcare market reached \$372 billion in 2023, marking a 22.5 per cent CAGR growth during this period.
- Overall, the sector has seen a 17.5 per cent CAGR growth in the last decade.
- The report identified large-scale innovation in hospitals, pharmaceuticals, diagnostics, and other industries as primary drivers behind the growth.

## **Indian Navy Day**



### Context:

- Indian Navy Day is celebrated annually on December 4th
- Aim is to commemorate the successful naval operation 'Operation Trident' during the Indo-Pakistani War of 1971.
- This operation involved a daring attack on the Karachi harbor, which significantly weakened the Pakistan Navy.

### Theme:

- This year's theme is, "Strength and Power through Innovation and Indigenisation."
- It emphasises the Navy's focus on enhancing defense capabilities through self-reliance and cutting-edge technology.

# ecDNA challenges law of genetics

### Context:

- Extrachromosomal DNA (ecDNA) is emerging as a groundbreaking discovery that challenges traditional understanding of genetics.
- These small, circular DNA molecules can rapidly amplify genes, leading to accelerated cancer growth and drug resistance.
- The discovery of ecDNA has opened up new avenues for cancer research and treatment.
- By targeting ecDNA, scientists may be able to develop more effective therapies to combat this deadly disease.







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	<ul> <li>Key findings about ecDNA:         <ul> <li>Rapid Evolution: ecDNA can evolve rapidly, enabling cancer cells to adapt to treatment and become resistant to therapy.</li> <li>Gene Amplification: It can amplify specific genes, driving tumor growth and aggressiveness.</li> <li>Potential Therapeutic Target: Understanding ecDNA could lead to the development of new targeted therapies to combat cancer.</li> </ul> </li> </ul>
Person in News: SHRI R. VENKATARAMAN	<ul> <li>Context:         <ul> <li>The President of India paid floral tributes to Shri R.</li> <li>Venkataraman on his birth anniversary at Raj Bhavan, Bhubaneswar.</li> </ul> </li> <li>Key Points:         <ul> <li>R. Venkataraman was an Indian politician who served as the 8th President of India from 1987 to 1992.</li> </ul> </li> </ul>
	<ul> <li>Prior to his presidency, he held various significant positions in the Indian government, including Finance Minister and Defense Minister.</li> <li>Known for his integrity and dedication to public service, Venkataraman played a crucial role in India's economic liberalization and modernization.</li> </ul>
National Legal Metrology Portal (eMaap)	<ul> <li>Context:         <ul> <li>The Department of Consumer Affairs, Government of India, is developing a National Legal Metrology Portal (eMaap).</li> <li>Aim is to integrate State Legal Metrology Departments and their portals into a unified National System.</li> <li>This digital platform also aims to streamline and modernize legal metrology activities in India.</li> </ul> </li> </ul>
	<ul> <li>Centralized Database: Create a centralized database of all stakeholders involved in legal metrology, including manufacturers, importers, and traders.</li> <li>Real-time Monitoring: Enable real-time monitoring of market activities and identify potential violations.</li> <li>Consumer Protection: Empower consumers by providing information about product standards, weights, and measures.</li> <li>Efficient Enforcement: Facilitate efficient enforcement of legal metrology laws and regulations.</li> <li>Transparency and Accountability: Promote transparency and accountability in the legal metrology ecosystem.</li> </ul>





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