

NATIONAL

1. National Quantum Mission

Why in news - The Union Cabinet approved the National Quantum Mission (NQM).

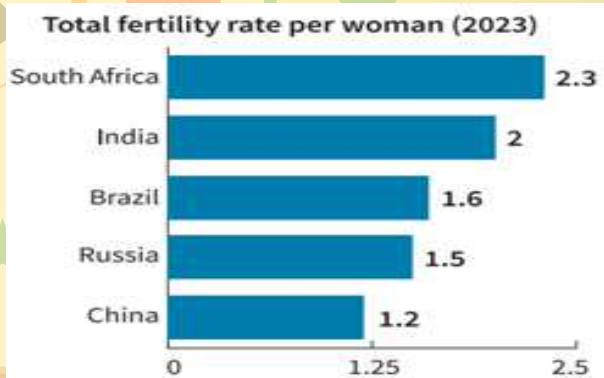
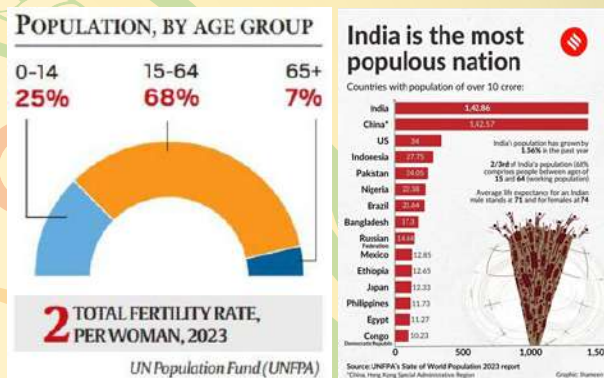
Key Points –









- By - Department of Science and Technology (DST).
- Total cost - Rs.6003.65 crore.
- Period - 2023-24 to 2030-31.
- Aim - to seed, nurture and scale up scientific and industrial R&D and create a vibrant & innovative ecosystem in Quantum Technology (QT).
- It put India among the top 6 leading nations involved in the research and development in quantum technologies. (6 nations - US, Canada, France, Finland, China and Austria).

Provisions –

- To develop intermediate-scale quantum computers with 50-1000 physical qubits in 8 years in superconducting and photonic technology.
- To develop magnetometers with high sensitivity in atomic systems and Atomic Clocks for precision timing, communications and navigation.

- To support design and synthesis of quantum materials such as superconductors and topological materials for fabrication of quantum devices.
- 4 Thematic Hubs (T-Hubs) to be set up in top academic and National R&D institutes
 - Quantum Computing
 - Quantum Communication
 - Quantum Sensing & Metrology
 - Quantum Materials & Devices.



Quantum Computing	Vs.	Classical Computing
 <p>Calculates with qubits, which can represent 0 and 1 at the same time</p>		 <p>Calculates with transistors, which can represent either 0 or 1</p>
 <p>Power increases exponentially in proportion to the number of qubits</p>		 <p>Power increases in a 1:1 relationship with the number of transistors</p>
 <p>Quantum computers have high error rates and need to be kept ultracold</p>		 <p>Classical computers have low error rates and can operate at room temp</p>
 <p>Well suited for tasks like optimization problems, data analysis, and simulations</p>		 <p>Most everyday processing is best handled by classical computers</p>

2. World Population report

Why in news - The annual State of World Population report was released by the UN Population Fund (UNFPA).

Key Points –

- India's population is expected to surpass that of China by the middle of this year.
- It has pegged India's mid-2023 population at 142.8 crores, marginally ahead of China's 142.5 crores.
- Reason - Relatively sharp drop in China's population (reduction of 2.3 crores in just one

year).

- The global population will hit 8.045 billion by mid-2023.
- Contrary to the alarm bells about exploding numbers, population trends everywhere point to slower growth and ageing societies.

3. Oil Jetty at Deendayal Port, Kandla

Why in news - Ministry for Ports, Shipping & Waterways approved the project of Development of Oil Jetty at Deendayal Port, Kandla, Gujarat.

Key Points –

- Purpose - to handle all types of liquid cargo at Kandla on BOT basis under PPP mode.
- Build-operate-transfer (BOT) – Government grants a concession to a private company to finance, build, and operate a project (20 to 30 years) after which the project is returned to the public entity that originally granted the concession.

About Kandla Port –

- Location - Kandla Creek, 90 kms from the mouth of the Gulf Of Kachch in Gujarat.
- Protected natural harbour.
- One of the major ports in India.
- Constructed in the 1950s after the partition left the port of Karachi in Pakistan.
- India's biggest state-owned cargo handler by volume. (Mundra Port, Gujarat - India's largest private port).

AWARDS & HONOURS

1. Malcolm Adiseshiah Award 2023

Why in news - Utsa Patnaik has been chosen for the Malcolm Adiseshiah Award 2023.

Key Points –

- She is a renowned economist with national and international acclaim.
- The award is granted to exceptional social scientist for outstanding contributions to Development Studies.
- Malcolm Satyanathan Adiseshiah (1910-1994) was an Indian development economist and educator.

2. Deenanath Mangeshkar Smruti Pratishthan Award

Why in news - Asha Bhosle, Pankaj Udhas and Vidya Balan are to be honored with the award on April 24, 2023.

Key Points –

- The award is given in the field of arts and society at large.
- It is given in the memory of Lata Mangeshkar, who died on February 6, 2022
- First recipient - PM Narendra Modi.

3. Grand Cross award

Why in news - Former Chancellor Angela Merkel has been honored with the prestigious award.

Key Points –

- She is the first woman to take the post of chancellor.
- It is Germany's highest possible honour.
- The award has only been given twice before, to former chancellors Konrad Adenauer and Helmut Kohl.

SUMMITS & CONFERENCES

1. Digital Health Summit 2023

Why in news – It was organized by the Confederation of Indian Industry (CII) at Goa on April 17, 2023.

Key Points –

- Theme - "Building One Health Together – Improving Health Equity".
- Digital Health includes biosensors, portable x rays, handheld ultrasounds, smartphone based POCD (Point-of-Care Diagnostics), Virtual health assistants and e-Pharmacies.
- World health organization (WHO) adopted Global strategy on digital health 2020-2025 in 2020.

RANKS & INDICES

1. World's Wealthiest Cities Report 2023

Why in news – The list was compiled by London-based consultancy Henley & Partners.

Key Points –

- It ranked the cities by taking into account the number of resident millionaires.
- From India (rank) - Mumbai (21), Delhi (36), Bengaluru (60), Kolkata (63) and Hyderabad (65).

Rank	City	Country	No. of High Net Worth Individuals
1	New York City	United States	340,000
2	Tokyo	Japan	290,300
3	The Bay Area	United States	285,000
4	London	United Kingdom	258,000
5	Singapore	Singapore	240,100

SCIENCE – TECHNOLOGY

1. NASA's Lucy mission

Why in news – The Lucy spacecraft used its L'LORRI high-resolution camera to capture the first views of the Jupiter Trojan asteroids.

Key Points –

- Trojan asteroid names - Eurybates, Polymele, Leucus and Orus.

About Lucy mission (NASA)

- It is on an epic 6 billion km long journey to study the Jupiter Trojan asteroids.
- Launch - October 26, 2021.
- First spacecraft sent to study the Trojan asteroids.
- Trojan asteroids – They orbit the Sun in the same path that the planet Jupiter takes.

BIHAR

1. 11th Thawe Festival

Why in news – The Thawe festival took place in Gopalganj, Bihar.

Key Points –

- Organised by - Department of Tourism and the Department of Art and Culture.
- Thawe Durga Temple is located in Gopalganj, Bihar.



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POINTERS

- India has made a generous contribution of what amount to the United Nations Entity for Gender Equality and the Empowerment of Women (UN Women) - **\$500,000 (₹4.09 crore).**
- Which country will chair the Finance Ministers Working Group for a Commonwealth Call for Reform of the Global Financial Architecture – **India.**
- Multilateral exercise Orion in which the Indian Air Force is also taking part, began at which airbase in France - **Mont-de-Marsan.**
- In which state, the Department of Posts has released a special cover on the Mahila Samman Savings scheme – **Telangana.**
- Deendayal Antyodaya Yojana - National Rural Livelihood Mission launched which campaign to mobilize 10 Crore Rural Women into Self Help Groups - **"Sangathan se Samridhi".**
- Staff Selection Commission, SSC MTS and CHSL exams have been approved to be conducted in how many regional languages other than Hindi and English – **13 regional languages.**
- NTPC and which other body aim to collaborate on Feasibility Study for setting Bamboo-based Bio-Refinery at Bongaigaon, Assam - **Chempolis India.**
- India will host the first-ever International Surf Open as a part of World Surf League in which city - **Mamallapuram, Tamil Nadu.**
- Who hit the first century of IPL 2023 - **Harry Brook.**
- Which country has switched off its three remaining nuclear power plants as part of a long-planned transition toward renewable energy – **Germany.**

PI

PATNA CENTRE : NEW BATCHES FOR BPSC STARTING FROM 19TH APRIL 2023 (HINDI MEDIUM) & 26TH APRIL 2023 (ENGLISH MEDIUM)

DELHI CENTRE : NEW BATCHES FOR BPSC STARTING FROM 26TH APRIL 2023 (HINDI & ENGLISH MEDIUM)