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July 7th

NATIONAL

1) India's demographic dividend

- India's average age is 29 years, whereas the average age in US, China, France, Germany and Japan is 38, 38, 42, 45 and 48 years, respectively. India is the youngest among the most populous countries in the world.
- 93% of the employment in India is absorbed by the unorganised sector, where workers are employed in underpaid jobs.

2) India's first Tele-MANAS chatbot

- India's first Tele-MANAS chatbot, designed to engage with people in distress.
- It has been launched in Jammu and Kashmir. It aims to provide round-the-clock access to health counsellors, clinical psychologists, and consultants.
- Under the Ministry of Health and Family Welfare, Tele-MANAS is a two-tier system. Tier 1 comprises State Tele MANAS cells, which includes trained counsellors and mental health specialists.
- Tier 2 comprises specialists at District Mental Health Programme (DMHP)/ Medical College resources for physical consultation and/or eSanjeevani for audio visual consultation.

3) The "farmers distress index"

- The Central Research Institute for Dryland Agriculture in India has developed a unique early warning system known as the "farmers' distress index."
- It's main aim is to minimize agrarian distress, including crop loss, failure, and income shocks, which have led to an increase in farmer suicides.
- The index allows for targeted interventions, such as focusing on improving women's incomes if the distress is gender-based.

















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SCIENCE AND TECHNOLOGY

1) Chandrayaan-3 mission

- The The Indian Space Research Organisation is set to launch Chandrayaan-3 mission on July 14th, which aims to demonstrate the capability of a soft landing on the Moon.
- The primary objective of the Chandrayaan-3 mission is to successfully achieve a soft landing on the Moon's surface.
- The Chandrayaan-2 mission, launched in 2019, faced challenges during its soft landing attempt, resulting in a setback for ISRO.
- The Chandrayaan-3 spacecraft comprises three essential components: the lander module, the propulsion module, and a rover.
- The lander module is designed to achieve a soft landing on the Moon, deploying the rover for scientific exploration.
- The rover will conduct chemical analyses and carry scientific payloads to enhance our understanding of the lunar surface.
- The propulsion module plays a crucial role in transporting the lander and rover to the lunar orbit.
- The LVM-3, India's most powerful rocket developed by ISRO, serves as the launch vehicle for the Chandrayaan-3 mission.

2) First hand-held navigation device

- Elena Geo Systems, a Bengaluru-based firm, has unveiled the country's first handheld navigation device based on the Indian Regional Navigation Satellite System (NavIC).
- The device aims to provide precise directions for various infrastructure projects such as railway, land survey, telecoms, and hydrocarbon exploration.















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BUSINESS AND ECONOMY

1) PNB Metaverse

- Punjab National Bank (PNB) has announced the launch of PNB Metaverse, a virtual branch that offers a unique banking experience.
- Traditional banking activities can be performed using digital avatars, providing an immersive 3D experience.

GEOGRAPHY AND ENVIRONMENT

1) Report on Microplastics

- A recent report by the Food and Agriculture Organization (FAO) highlights the significant impact of microplastics and nano plastics on human and animal gut microbiomes and the environment.
- Microplastics are plastic particles less than 5mm in diameter.
- Exposure to plastic has been observed to cause intestinal inflammation and gut dysbiosis, altering the gut microbiome and microbiota.

2) 'Blood Falls' on Taylor Glacier

- The phenomenon of the 'Blood Falls' on Taylor Glacier in Antarctica was observed. It was discovered in 1911.
- The glacier responsible for the mesmerizing 'Blood Falls' is known as Taylor Glacier. Its bleeding phenomenon was first observed and documented back in 1911 during a British expedition to Antarctica.















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APPOINTMENTS

1) Govind Kottis Satish

- Russion energy company Rosneft has appointed former Indian Oil Cooperation (IOC) director Govind Kottis Satish as its board member.
- The Russian Oil Company has partnership with the Indian Oil Cooperation in oil and gas fields in Russia.

2) P. Vasudevan

The Reserve Bank of India (RBI) has appointed P. Vasudevan as executive director. Vasudevan will look after Department of Currency Management, Corporate Strategy and Budget Department.

IMPORTANT DAYS

1) World Kiswahili Language Day

- Every year, the World Kiswahili Language Day is observe on 7th July by the United Nations Educational, Scientific and Cultural Organization.
- The Theme of 2023: "Unleashing Kiswahili's potential in the digital era"

SPORTS

1) Tamim Iqbal announced his retirement from international cricket

Bangladesh one-day captain Tamim Igbal announced his retirement from international cricket. He he played 70 Test matches for Bangladesh scoring 5134 runs at an average of 38.89.















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