

October - 12

TNPSC BITS

- ❖ Tamil Nadu Chief Minister M.K. Stalin was presented with the Asia HRD Lifetime Achievement award.
- ❖ Tamil Nadu's Health and Family Welfare Department has bagged the 'UN Inter agency Task Force Awards (UNIATF) for 2024' under the category of Ministries of Health for its flagship scheme 'Makkalai Thedi Maruthuvam'.
- ❖ The Maritime Exercise Malabar 2024 is held in Vizag with the participation from Australia, Japan, and the United States.
- ❖ The Chief Minister of Chhattisgarh has inaugurated the Jal-Jagar Mahotsav at the Ravishankar Reservoir in Gangrel Dam, Dhamtari district.
- ❖ The Indian and UAE governments are working on interlinking of UPI of India and the AANI of UAE to facilitate the seamless cross-border transactions between two countries.
- ❖ India has extended support of 400 million dollars and a bilateral currency swap of 3,000 crore rupees to the Maldives.
- ❖ The Ministry of Electronics and Information Technology (MeitY), has launched the Vishvasya-Blockchain Technology Stack to support the various permissioned Blockchain based applications.

INTERNATIONAL

Farewell to Horse Race - Singapore

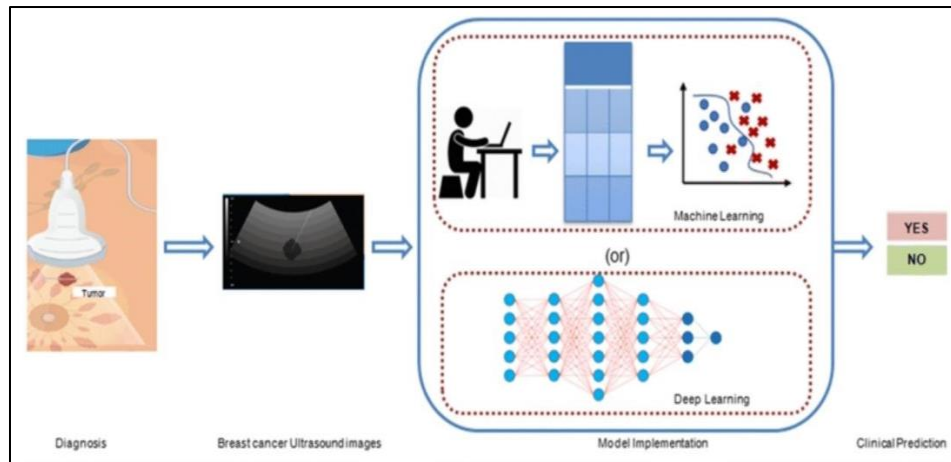


- ❖ Singapore bade farewell to a 182-year-old British-era tradition of horse racing recently.

- ❖ The Singapore Turf Club (STC) hosts horse racing since 1842.
- ❖ The Horse racing was introduced to Singapore over 182 years ago by Scottish merchant William Henry Macleod Read.
- ❖ He had founded the Singapore Sporting Club which was later renamed to STC in 1924.

SCIENCE AND TECHNOLOGY

Cancer detection with sound waves

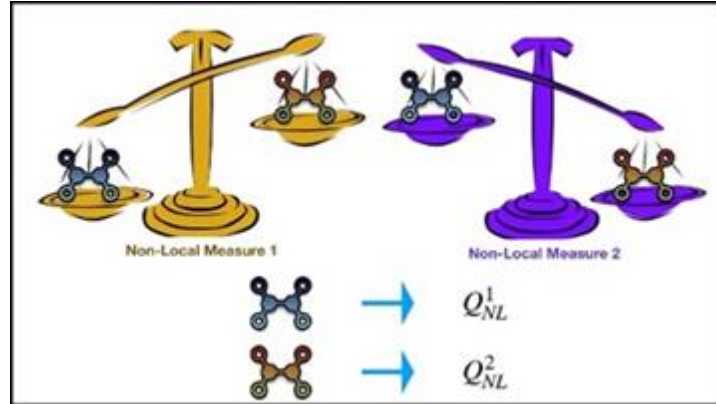


- ❖ The method uses ultrasound to turn a small part of our body's tissue into droplets that are released into the blood.
- ❖ These bubbles contain the molecules like RNA, DNA, and proteins that allow the scientists to identify particular types of cancer.
- ❖ The high-energy ultrasound can break off a small piece of cancerous tissue into droplets and release their contents into the bloodstream.
- ❖ This version of the test would cost a hundred-times less, around \$100 (Rs 8,400).

Quantum nonlocality

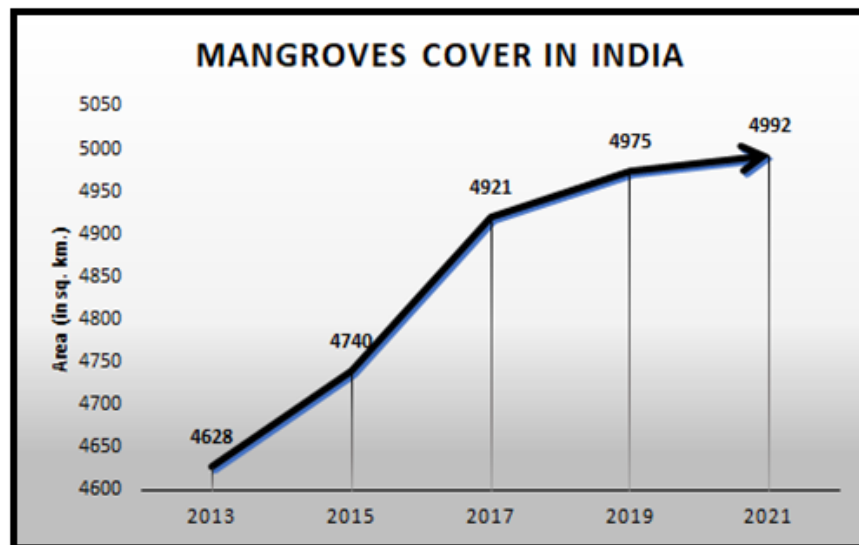
- ❖ The Scientists have demonstrated that a universal standard for measuring and quantifying non-local quantum correlations is not possible.
- ❖ Quantum nonlocality describes a strange connection between distant physical objects, one that doesn't allow for faster-than-light communication.
- ❖ This new research broadens the potential applications of quantum non-local correlations.

- ❖ These are already used in secure communication, random number generation, and cryptographic key creation.
- ❖ Quantum nonlocality used as a key resource for secure communication, random number certification, and cryptographic key generation.



ENVIRONMENT

EnviStats India 2024: Environment Accounts

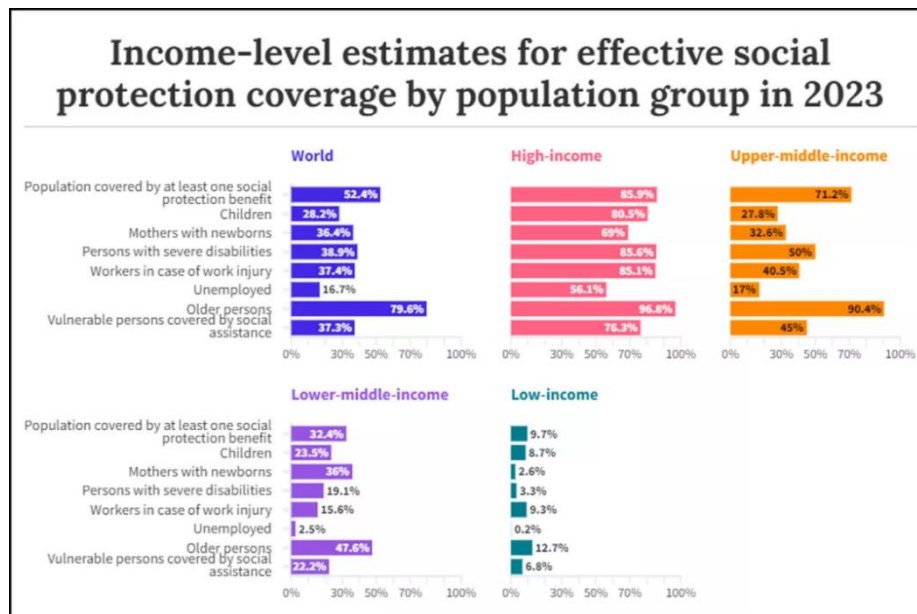


- ❖ The Ministry of Statistics (MoSPI) has compiled and released the 7th consecutive issue of the publication “EnviStats India 2024: Environment Accounts”.
- ❖ Installed capacity of solar energy in India has increased by more than 25 times from 2.82 GW in March 2014 to 73.32 GW in December 2023.
- ❖ India is one of the world’s 17 mega diverse nations with around 8% of the world’s documented species.
- ❖ India hosts 4 of the 36 globally recognised biodiversity hotspots.

- ❖ There has been around 72% increase in the number and around 16% increase in area for the Total Protected Area during the period 2000 to 2023.
- ❖ The coverage of Mangroves, which is an important sub ecosystem of the ocean ecosystem, has increased around 8% over the years 2013 to 2021.
- ❖ Most of the IUCN Red List species in India are under the ‘Least Concern’ category.

REPORTS AND INDICES

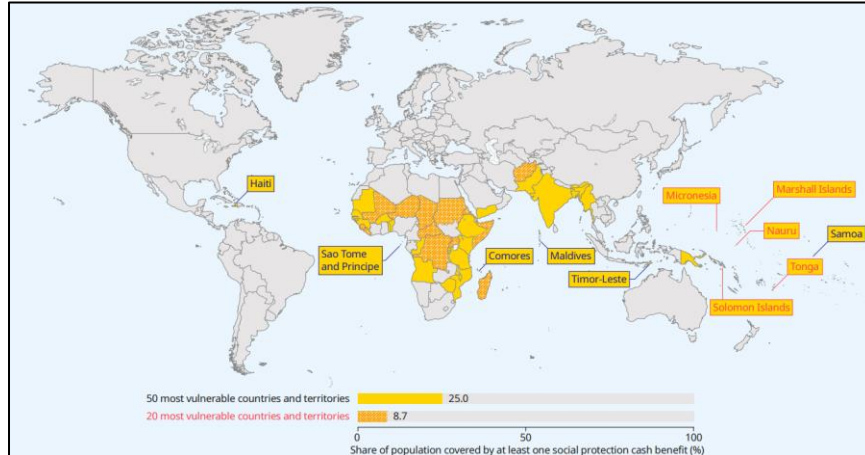
World Social Protection Report 2024-26



- ❖ The International Labour Organization (ILO) revealed that more than half of the world’s population is covered by some form of social protection.
- ❖ The report is named “World Social Protection Report 2024–26: Universal social protection for climate action and a just transition”.
- ❖ 52.4 per cent of the global population is now covered by at least one social protection benefit, up from 42.8 per cent in 2015.
- ❖ In the 20 countries most vulnerable to climate change, a staggering 91.3 per cent of people (364 million) lack any form of social protection.
- ❖ Globally, 50.1 per cent of women are covered by at least one social protection benefit, compared to 54.6 per cent of men.
- ❖ Only 28.2 per cent of children aged 0-15 receiving child or family cash benefits globally.
- ❖ This leaves 1.4 billion children without coverage.

- ❖ High-income countries spend an average of 16.2 per cent of their GDP on social protection (excluding health).
- ❖ But low-income countries allocate a mere 0.8 per cent.

Regional companion report for Asia and the Pacific



- ❖ The International Labour Organisation (ILO) report released this report.
- ❖ The report is titled 'Regional companion report for Asia and the Pacific of the World Social Protection Report 2024-26: Universal social protection for climate action and a just transition'.
- ❖ About 2.1 billion people still remain unprotected against various lifecycle and socio-economic risks.
- ❖ Since 2015 the effective coverage rate in southern Asia by 16.7 percentage points (18.7 to 35.4%).
- ❖ The Five most populous countries — Bangladesh, China, India, Indonesia and Pakistan have coverage rates as 22%, 75.6%, 48.4%, 54.3% and 20.2%, respectively.
- ❖ The unemployment insurance schemes exist in India and Iran, but their coverage is limited.
- ❖ In India, unemployment insurance covers by law only 11.5% of the working-age population.

STATES

Banjara Virasat Museum - Maharashtra

- ❖ The Banjara Virasat Museum has been inaugurated in Pohardevi at Washim in Maharashtra to celebrate the rich heritage of the Banjara community.

- ❖ Banjara community is a group of nomadic tribes originally from Rajasthan who have now settled in Karnataka, Andhra Pradesh, Madhya Pradesh, Gujarat and Maharashtra.
- ❖ Poharadevi is considered a sacred site by the community, they often refer to it as the “Kashi of the Banjara community.”
- ❖ The Banjaras were historically pastoralists, traders, breeders and transporters of goods in the inland regions of India.



UP's rural women drive



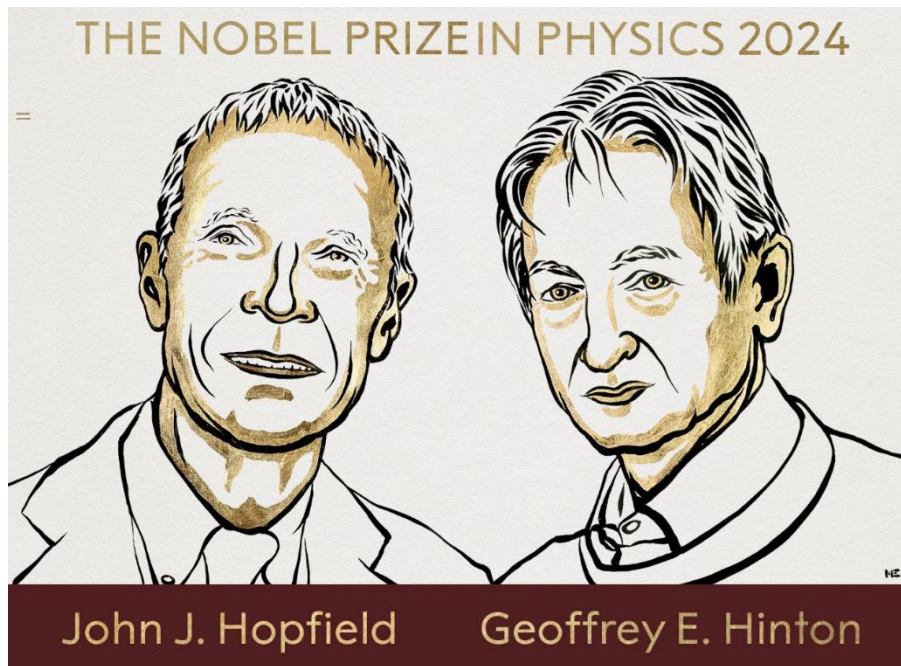
- ❖ The Enterprising women business correspondents, known as BC Sakhis, have facilitated transactions worth Rs 27,000 crore in Uttar Pradesh.
- ❖ BC Sakhis are appointed under nationwide women empowerment programme.
- ❖ They are members of self-help groups (SHGs) who are trained and certified to provide banking and financial services in rural areas.

- ❖ Uttar Pradesh leads the nation in the number of BC Sakhis, followed by Madhya Pradesh and Rajasthan with nearly 19,000 and 10,000 correspondents, respectively.

PERSONALITIES, AWARDS, AND EVENTS

Nobel Prize in Physics 2024

- ❖ The Nobel Prize in Physics was awarded to John Hopfield and Geoffrey Hinton.
- ❖ They have used physics tools to develop methods that form the basis of today's powerful machine learning.
- ❖ John Hopfield has created an associative memory that can store and reconstruct images and other patterns in data.
- ❖ Geoffrey Hinton invented a method that can automatically find properties in data, allowing it to identify specific elements in pictures.
- ❖ The 2023 prize went to physicists Anne L'Huillier, Pierre Agostini, and Ferenc Krausz for their work with electrons.



IMPORTANT DAYS

World Cotton Day 2024 - October 07

- ❖ This day is dedicated to showcasing the incredible versatility of cotton.

- ❖ While cotton is a staple in the textile industry.
- ❖ It also plays a crucial role in animal feed, medical supplies and even the production of edible oil.
- ❖ This day originated from the Cotton Four nations—Burkina Faso, Benin, Chad, and Mali—and other cotton-producing countries in Africa.
- ❖ The first World Cotton Day event was initiated in Geneva and observed on October 7, 2019.
- ❖ The theme of 2024 "Megatrends Shaping Cotton Textile Value Chain".

