

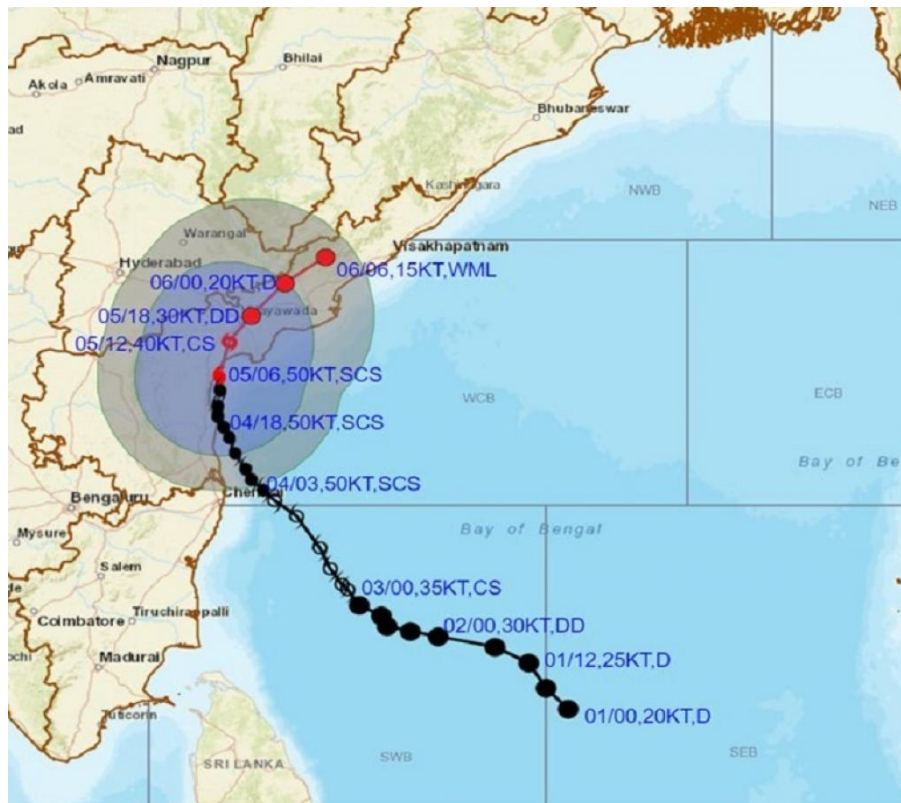
December - 06

TNPSC BITS

- ❖ Uganda from Africa for the first time qualified for the 2024 men's T20 World Cup to be held at USA and West Indies.
 - It will feature 20 teams for the first time ever.

TAMIL NADU

Cyclone Michaung



- ❖ It was named by Myanmar.
- ❖ The IMD (the Indian Meteorological Department) had initially predicted that Michaung would remain a 'tropical cyclone' (wind speeds of 62 kph to 87 kph) until it crossed the Andhra Pradesh coast.
- ❖ But later the IMD upgraded it to the intensity of a 'severe' storm (wind speeds of 88 kph to 166 kph)
- ❖ It crossed the south Andhra Pradesh coast, close to Bapatla.
- ❖ It is between the cities of Nellore and Machilipatnam in Andhra Pradesh.



- ❖ After crossing the Andhra coast, the system is expected to continue to move northwestward towards southern Odisha.
- ❖ Here, the IMD has issued an 'orange' alert
- ❖ Climatologically, about five cyclones develop in the North Indian Ocean basin — comprising the Bay of Bengal and the Arabian Sea — every year.
- ❖ Of these, an average of four cyclones develops over the Bay of Bengal and one over the Arabian Sea.

NATIONAL

Gajraj System



- ❖ The Indian Railways has initiated a pioneering step towards wildlife conservation by deploying the "Gajraj system".
- ❖ It is an Artificial Intelligence (AI)-based solution.
- ❖ It can alert loco pilots well in time about the presence of elephants on tracks.
- ❖ Railways will install this system in Assam, West Bengal, Odisha, Kerala, Jharkhand and Chhattisgarh and Tamil Nadu.
- ❖ The Intrusion Detection System (IDS) was introduced by the Northeast Frontier Railway (NFR) in December 2022.

SCIENCE AND TECHNOLOGY

JT60SA - Japan

- ❖ It is the world's largest and most advanced experimental nuclear fusion reactor.

- ❖ It has officially commenced operations in Japan's Ibaraki Prefecture.
- ❖ It was developed as a collaborative effort between the European Union and Japan.
- ❖ It features a doughnut-shaped “tokamak” vessel designed to contain swirling plasma heated to an astounding 200 million degrees Celsius.
- ❖ This state-of-the-art facility serves as a precursor to the International Thermonuclear Experimental Reactor (ITER) in France.
- ❖ Nuclear fusion is a clean and sustainable energy source.
- ❖ Nuclear fusion is a revolutionary alternative to the current nuclear power plant technology based on fission.
- ❖ It involves the process of fusing two atomic nuclei to create a single, heavier element.
- ❖ Unlike fission, which entails splitting atomic nuclei, fusion has the potential to provide abundant energy with minimal environmental impact.



REPORTS AND INDICES

World Malaria Report 2023

- ❖ The WHO report reveals that global malaria cases surged to 249 million in 2022,
- ❖ It was surpassing pre-pandemic levels by 16 million.
- ❖ The global malaria response faces numerous challenges, including COVID-19 disruptions, drug and insecticide resistance, humanitarian crises, resource constraints, and climate change impacts.
- ❖ The report acknowledges achievements, including the first WHO-recommended malaria vaccine, RTS,S/AS01.
- ❖ The recent recommendation of a second vaccine is R21/Matrix-M.

- ❖ Four countries, Nigeria (27%), the Democratic Republic of the Congo (12%), Uganda (5%), and Mozambique (4%), accounted for almost half of all malaria cases globally.
- ❖ In 2022, India accounted for a staggering 66% of malaria cases in the WHO South-East Asia Region.
- ❖ Plasmodium vivax, a protozoal parasite, contributed to almost 46% of cases in the region.
- ❖ India and Indonesia accounted for about 94% of all malaria deaths in the WHO South-East Asia Region.
- ❖ Africa bears the highest malaria burden, accounting for 94% of cases and 95% of global malaria deaths in 2022.
- ❖ WHO aimed to reduce malaria incidence and mortality rates by 75% in 2025 and 90% in 2030.



IMPORTANT DAYS

International Cheetah Day 2023 – December 04

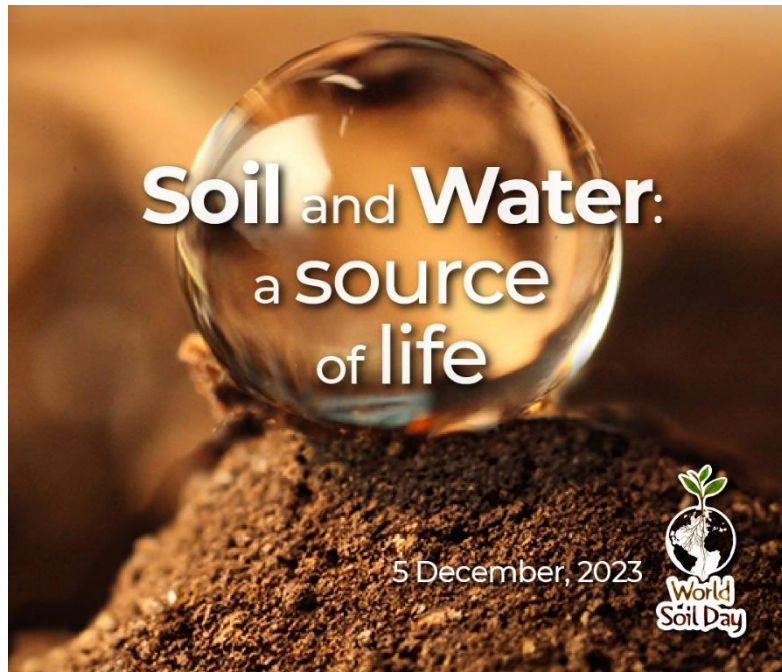
- ❖ Cheetah is renowned as the fastest land animals and mammal on the Earth.
- ❖ The International Union for Conservation of Nature (IUCN) classifies cheetahs as vulnerable, with an estimated 7,000 individuals remaining in the wild.



- ❖ This date lies in the birthday of Khayam, a cheetah raised by Dr. Laurie Marker of USA.
- ❖ Khayam is a cheetah cub nurtured by Marker at Wildlife Safari in Oregon, USA.
- ❖ The dedication to cheetah conservation is highlighted by the establishment of the Cheetah Conservation Fund (CCF) in 1990.



World Soil Day 2023 – December 05



- ❖ The theme of this year is ‘Soil and Water, a Source of Life’.
- ❖ It traces back to the International Union of Soil Sciences (IUSS).

- ❖ IUSS recommended the establishment of an international day to celebrate soil in 2002.
- ❖ With leadership from the Kingdom of Thailand and support from the Food and Agriculture Organisation (FAO) within the Global Soil Partnership framework, World Soil Day emerged as a global awareness platform.
- ❖ The date of December 5 was chosen because it coincides with the birthday of Thailand's King Bhumibol Adulyadej.
- ❖ In June 2013, the FAO Conference endorsed World Soil Day and later approached the 68th United National General Assembly
- ❖ The Kunming-Montreal Global Biodiversity Framework is a plan for everyone to take urgent action to halt and reverse the loss of biodiversity loss.

International Volunteer Day 2023 – December 05



- ❖ It was established by the United Nations General Assembly in December 1985.
- ❖ The 2023 theme is “The Power of Collective Action: If Everyone Did”.
- ❖ It provides a unique opportunity for individuals, non-governmental organizations (NGOs), United Nations agencies, government authorities, and the private sector to celebrate, promote, and share the values of volunteerism.

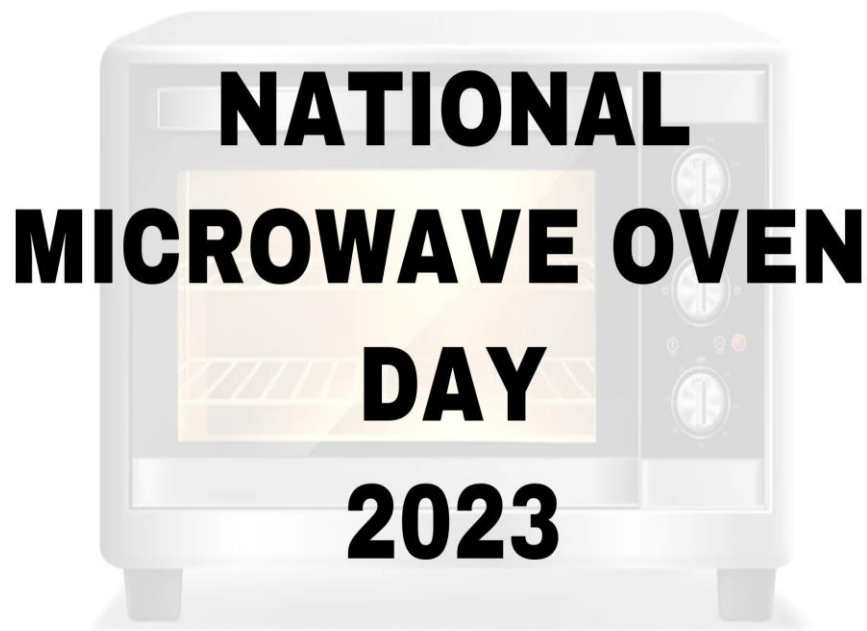
UNCTAD ecommerce week 2023 – December 04 to 08

- ❖ It will take place at the International Conference Centre of Geneva (CICG).
- ❖ It was renamed eWeek to encompass all aspects of the evolving global digital landscape.

- ❖ The theme of this year will be "Shaping the future of the digital economy".



National Microwave Oven Day 2023 – December 06



- ❖ Percy Spencer, a self-taught American engineer, discovered a method for using microwaves to safely heat food in 1945.
- ❖ Unlike traditional cooking using bowls and utensils with fire, microwave ovens use electromagnetic radiation.

- ❖ A patent was filed by Raytheon on October 8, 1945, and the first microwave ovens were named the “Radarange.”

Mahaparinirvan Diwas

- ❖ December 6 marks the Mahaparinirvan Diwas of Dr. B.R. Ambedkar.
- ❖ DR BR Ambedkar's death anniversary is observed annually on December 6.
- ❖ He breathed his last in Delhi in 1956.
- ❖ Parinirvana represents a fundamental concept in Buddhism.
- ❖ It is signifying the attainment of nirvana or liberation during one's lifetime and even after death.
- ❖ In Sanskrit, achieving nirvana posthumously or the release of the soul from the body after death is referred to as Parinirvana.
- ❖ The term "Parinibbana" in Pali is employed to convey the fulfilment of nirvana.

