

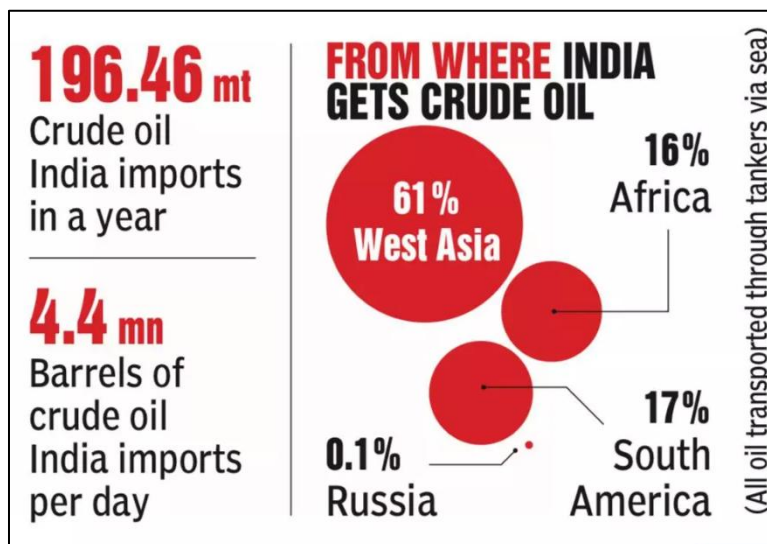
October - 23

TNPSC BITS

- ❖ The International 6G Symposium was the event organized by the Bharat 6G Alliance was held in New Delhi.
- ❖ The South Eastern Coalfields Limited (SECL), Chhattisgarh has inaugurated the country's 216th AMRIT (Affordable Medicines and Reliable Implants for Treatment) Pharmacy.
- ❖ NITI Aayog hosted the Second International Methanol Seminar and Expo 2024 in New Delhi.
- ❖ India's Akhil Sheoran clinched a bronze medal in the men's 50m rifle 3 positions shooting event at the ISSF World Cup Final 2024 in New Delhi.
- ❖ Prime Minister has inaugurated the 'Karmayogi Saptah' National Learning Week aimed at enhancing the individual and organizational capacity of civil servants.
- ❖ The Indian Army's Sudarshan Chakra Corps is conducting a major exercise called "Exercise Swavlamban Shakti" near Jhansi, Uttar Pradesh.
- ❖ Prabowo Subianto sworn in as 8th President of Indonesia.

TAMIL NADU

Tamil Nadu's Oil Spill Contingency Plan 2024



- ❖ The Tamil Nadu government has finalised a contingency plan to mitigate such disasters.
- ❖ Four coastal districts are being identified as 'very high' risk for oil spills.

- ❖ This plan outlines the necessary steps and procedures for restoring an oil-contaminated habitat or shoreline to its original state without causing any adverse impacts on natural resources and the environment.
- ❖ It is intended for responding to marine oil spills of any type that occur within 12 nautical miles (24 km) off the State's coastline.
- ❖ It also includes riverine systems extending 40 km inland or to the point where tidal effects are noticeable, whichever distance is greater.
- ❖ As per the plan, coastal ecosystems including the Gulf of Mannar, Ennore, and Pichavaram Mangroves are prioritized.

NATIONAL

Next Chief Justice of India 2024



- ❖ Chief Justice of India D.Y. Chandrachud has recommended the Justice Sanjiv Khanna to the government for appointment as the 51st Chief Justice of India.
- ❖ Current CJI is scheduled to retire on November 10.
- ❖ Justice Khanna did not serve as the chief justice of any high court before his appointment as a judge in the Supreme Court in January 2019.
- ❖ He is due to retire on May 13, 2025.

Samarth Scheme extension 2024

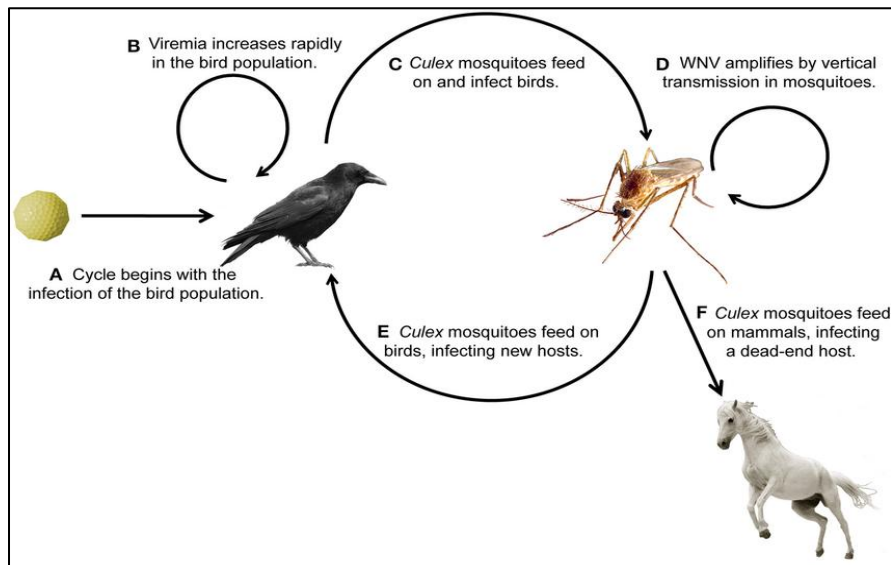
- ❖ The Government extends the “Samarth” (Scheme for Capacity Building in Textiles Sector) scheme till March 2026.
- ❖ It is focusing on the job creation in organized textile industries while excluding spinning and weaving.

- ❖ The program also emphasizes the upskilling of existing workers and supports traditional textile sectors such as handloom and handicraft.



INTERNATIONAL

West Nile virus in Ukraine



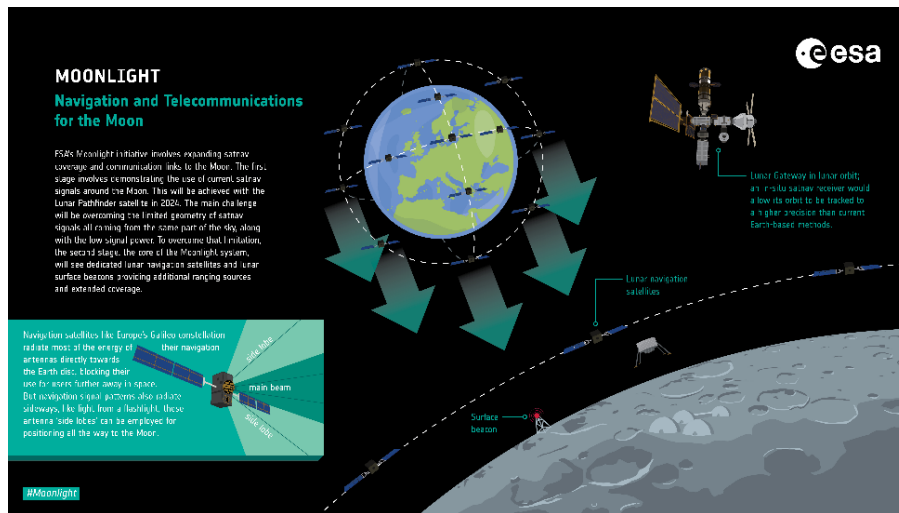
- ❖ Ukraine reported a severe outbreak of West Nile virus (WNV).
- ❖ WNV is common in regions such as Africa, the Middle East, North America, and West Asia.
- ❖ It typically spikes between the summer and autumn months of June and September.

- ❖ The virus is transmitted to humans through the bite of an infected mosquito, which usually contracts the virus from migratory birds or horses.
- ❖ The virus was first identified in Uganda's West Nile region in 1937.
- ❖ There is currently no specific treatment or vaccine for WNV.

SCIENCE AND TECHNOLOGY

Moonlight program

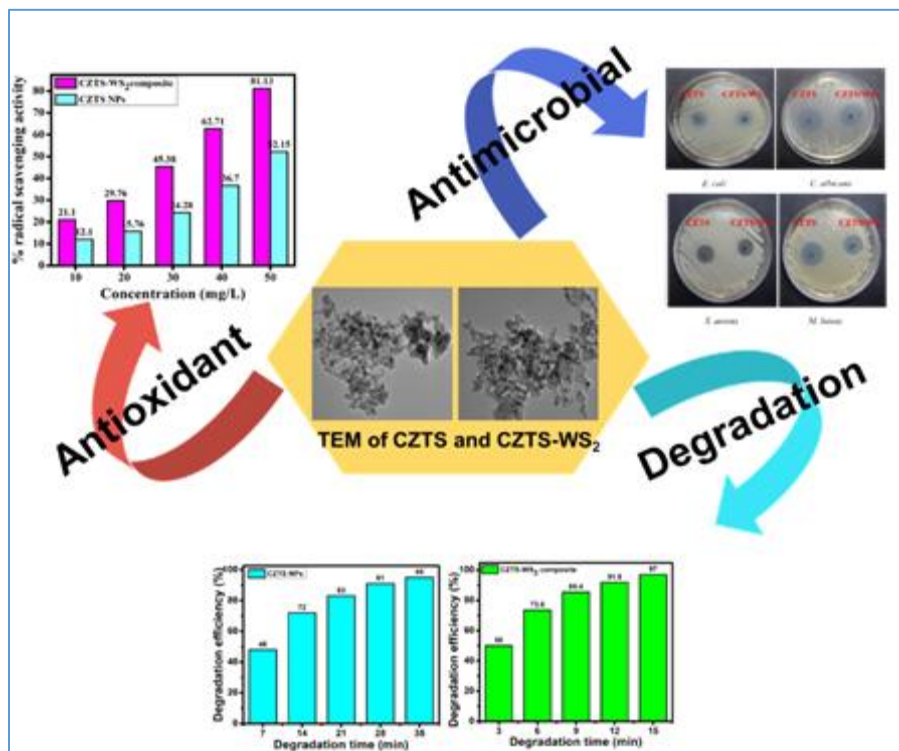
- ❖ The European Space Agency (ESA) at the International Astronautical Congress, launched its Moonlight Lunar Communications and Navigation Services (LCNS) program.
- ❖ It aims to offer critical support for over 400 moon missions planned by space agencies and private companies in the next 20 years.
- ❖ The programme will have a constellation of about five lunar satellites that will allow accurate autonomous landings, high-speed communication, and surface mobility.
- ❖ These satellites will reportedly enable data transfer over 2,50,000 miles or 4,00,000 kilometres between the Earth and the Moon.
- ❖ Europe reportedly also has plans to land its Argonaut spacecraft on the moon by 2031.



New photocatalyst

- ❖ The Scientists have developed an efficient photocatalyst that can degrade in sulfamethoxazole.

- ❖ It is a broad-spectrum antibiotic to less hazardous chemicals and reduce health and environmental concerns associated with antibiotic contamination.
- ❖ The Antibiotic contamination has several adverse effects, including the antibiotic resistance, ecological impact, human health concerns, etc.
- ❖ The Scientists have synthesized copper zinc tin sulfide $\text{Cu}_2\text{ZnSnS}_4$ (CZTS) nanoparticles (NPs) and copper zinc tin sulfide - tungsten disulfide CZTS-WS₂ composite.
- ❖ Broad-spectrum antibiotics like sulfamethoxazole (SMX) have long been used to treat human illnesses like urinary and respiratory tract infections.
- ❖ However, more than 54 % of SMX was released into the environment along with the faeces and urine of the patients.



ENVIRONMENT

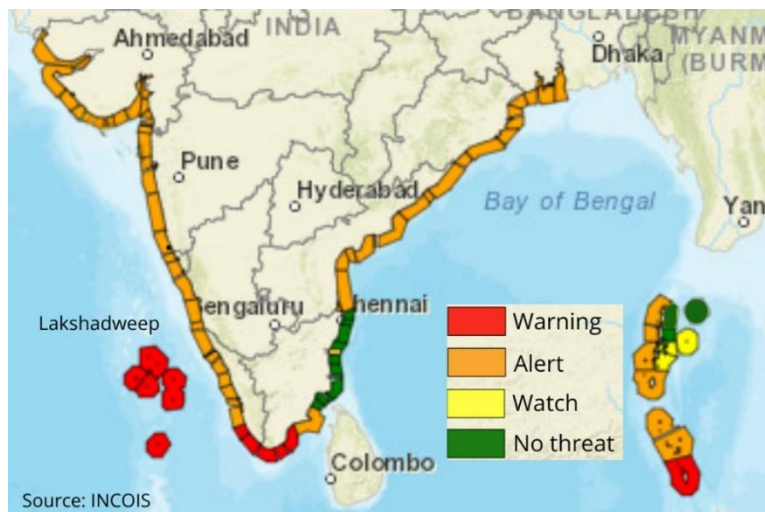
Rufous-tailed rock thrush

- ❖ Rufous-tailed rock thrush (*Monticola saxatilis*) was spotted in Kanniyakumari Wildlife Sanctuary.
- ❖ This is the first record of the bird in Tamil Nadu.
- ❖ Earlier, the bird has been spotted a few times in Kerala and largely on north-western parts of India during migration.

- ❖ They breed in Southern Europe across Central Asia to Northern China.
- ❖ It migrates to Africa during the non-breeding season.



Swell wave surges

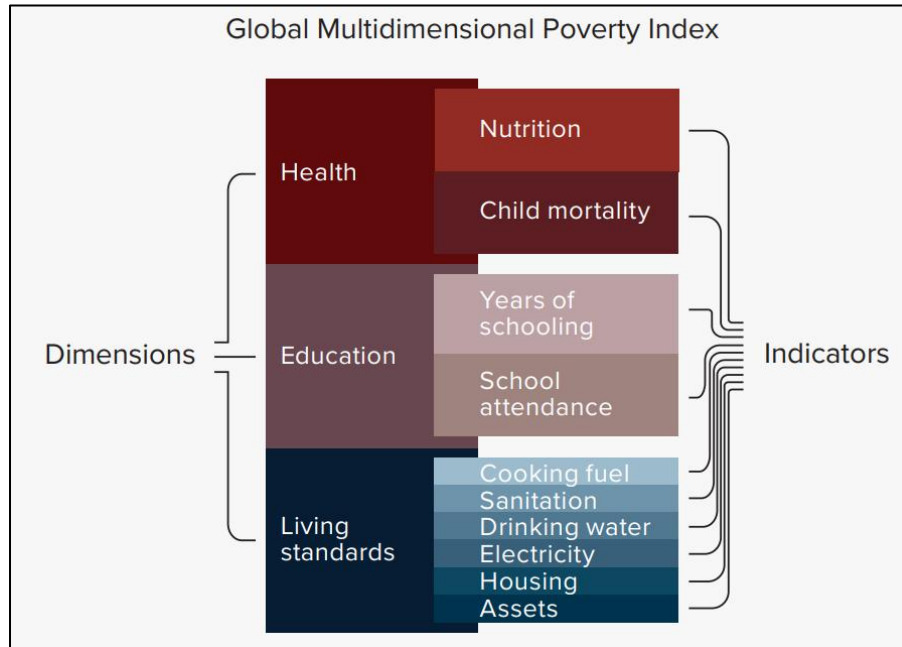


- ❖ The Indian National Centre for Ocean Information Services had issued a warning to States of Kerala, South Tamil Nadu, Puducherry and Lakshadweep.
- ❖ Swell waves are long-wavelength ocean waves that travel away from their places of origin.
- ❖ They are usually created by windstorms or other weather systems.
- ❖ Sea waves otherwise are usually generated due to local winds.
- ❖ Windstorms and other powerful air current systems transfer energy from the air to water, making swell waves more powerful than locally generated waves.
- ❖ Because of their high energy, swell waves are able to travel large distances and strike shores with considerably high power.

- ❖ Swell waves are also called Kallakkadal waves in India, which is a colloquial term used by Kerala fishermen.
- ❖ The term has now been approved for scientific use by UNESCO.

REPORTS AND INDICES

Global Multidimensional Poverty Index 2024

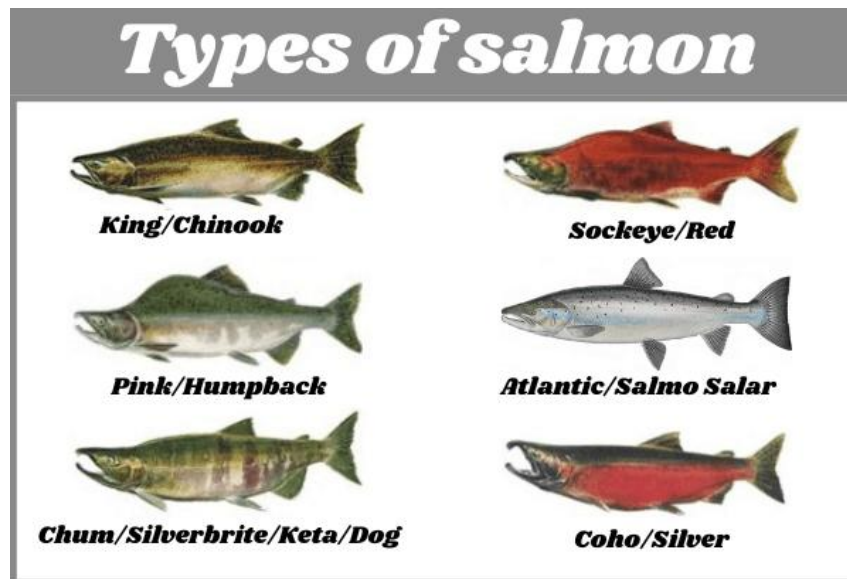


- ❖ The latest update of the global Multidimensional Poverty Index (MPI) was released by the United Nations Development Programme (UNDP) and the Oxford Poverty and Human Development Initiative.
- ❖ According to the UN report, 1.1 billion people, over half of them minors, live in acute poverty worldwide.
- ❖ India has 234 million people living in poverty, which is the medium Human Development Index.
- ❖ India is among the five countries globally with the largest number of people living in poverty.
- ❖ The other four countries are Pakistan (93 million), Ethiopia (86 million), Nigeria (74 million) and the Democratic Republic of the Congo (66 million), all low HDI.
- ❖ These five countries account for 48.1% of the global poor.
- ❖ The report notes that over half of the 1.1 billion poor people are children under the age of 18 (584 million).

- ❖ Globally, 27.9 per cent of children live in poverty, compared with 13.5 per cent of adults.
- ❖ In South Asia 272 million poor people live in households with at least one undernourished person, and in Sub-Saharan Africa 256 million.
- ❖ About 83.7 per cent of poor people live in rural areas.

MISCELLANEOUS

Salmon farming



- ❖ The rising demand for farmed salmon is affecting coastal communities to access affordable fish.
- ❖ Fish oil is increasingly in demand for salmon farms, which now supply 70 per cent of all salmon consumed worldwide.
- ❖ The farmed Atlantic salmon alone accounted for 60 per cent of fish oil usage in 2020.
- ❖ Poor coastal communities depend on these small fish for both food and their livelihoods.
- ❖ But because these fish are being used to feed farmed fish, like salmon, instead of being available for local consumption, these communities are struggling to access an affordable source of protein.

