

PRABHA IAS IPS COACHING ACADEMY



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Establishing New Trend In Coaching



DAILY DOSE

CURRENT AFFAIRS – 01/12/2025

1. **Protosticta sooryaprakashi:**

Recent - A new species of damselfly named, *Protosticta sooryaprakashi*, sporting vibrant sky-blue markings, has been recently discovered in the biodiversity hotspots of India's Western Ghats.

It is a new species of damselfly.

Named the Kodagu Shadowdamsel, it was discovered in Karnataka's Kodagu district.

The species has been named in honour of the late Dr. Sooryaprakash Shenoy, a renowned botanist.

2. **Ramban Sulai Honey:**

Recent - The Prime Minister, during the 128th episode of his radio programme 'Mann Ki Baat' noted that Ramban Sulai honey from Jammu and Kashmir, made from wild basil, gained wider recognition after receiving a GI tag.

Ramban Sulai Honey, produced in the Ramban District of Jammu and Kashmir, is known for its rich taste, aromatic floral undertones, and high nutritional value.

Extracted from Sulai plants growing in the Himalayas, it is prized for its medicinal properties and purity.

It earned a Geographical Indication (GI) tag in 2021.

The Government of India declared Ramban Sulai Honey as the district's "One District, One Product".

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3. Khiamniungan Tribe:

Recent - the Prime Minister of India mentioned about the Khiamniungan tribe in his 'Mann Ki Baat' episode.

The Khiamniungan tribe is one of the major tribes among the Nagas, with habitation both in India and Myanmar.

Geographically, the land of Khiamniungans is located in the Eastern part of Nagaland and in the North-Western part of Myanmar.

The meaning of the term Khiamniungan is 'source of great water or river'.

Social Structure: The traditional social structure was based on the clan system.

4. Darjeeling Mandarin Orange:

Recent - the Darjeeling Mandarin orange received the Geographical Indication status.

It is grown in the hills of Darjeeling in West Bengal.

The Mandarin Orange (*Citrus reticulata Blanco*) is a major cash crop of the Darjeeling Hills.

It is the third product from the region, after Darjeeling Tea and Dalley Khursani chilli, to get the tag.

It is commonly known as "suntala" is the pride of Darjeeling hills due to its delightful aroma and flavour.

5. Bamboo Shrimp:

Recent - A team of researchers rediscovered Indian populations of the bamboo shrimp in Karnataka and Odisha after 72 years.

It is a medium-sized freshwater shrimp native to Southeast Asia.

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Common names: Wood Shrimp, Flower Shrimp, Singapore Wood, Marble Shrimp and Asian Fan Shrimp.

The color of their body changes according to their mood. It becomes brighter when they are happy, while it fades when they are in a bad mood.

It is an amphidromous species i.e the larvae develop in brackish water before returning to freshwater.

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DAILY DOSE

CURRENT AFFAIRS – 02/12/2025

1. Heron Mk II:

Recent - To enhance their unmanned capabilities in the wake of Operation Sindoor, the Indian armed forces have signed up for more satellite-linked Heron Mk II UAVs under emergency procurement, sources in the Israeli defence industry said recently.

It is a medium-altitude long-endurance (MALE) unmanned aerial vehicle (UAV).

It was developed by Israel Aerospace Industries (IAI).

It has a length of 8.5 m, a wingspan of 16.6 m, and a payload capacity of 490 kg.

It has a maximum takeoff weight of 1,430 kg.

2. Biological Weapons Convention (BWC):

Recent - The External Affairs Minister recently called for urgent reforms to strengthen global biosecurity and modernise the Biological Weapons Convention (BWC), warning that biological threats are becoming harder to manage in a rapidly evolving scientific landscape.

It is a legally binding international treaty that bans the use of biological and toxin weapons and prohibits all development, production, acquisition, stockpiling, or transfer of such weapons.

The treaty also bans any equipment or means of delivery that is designed to use biological agents or toxins for hostile purposes or armed conflict.

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It requires signatories to destroy biological weapons, agents, and production facilities within nine months of the treaty's entry into force.

It opened for signature on 10 April 1972 and entered into force on 26 March 1975.

It was the first multilateral treaty categorically banning a class of weapon.

3. **Masala Bonds:**

Recent - The Enforcement Directorate's (ED) recent decision to issue notices to the Kerala Chief Minister in the KIIFB masala bond investigation marks a significant escalation in a long-running conflict between the LDF government and central agencies over the state's financing model.

They are rupee-denominated bonds issued outside India by Indian entities.

The International Finance Corporation (IFC), an arm of the World Bank, issued the first masala bonds in October 2013 as part of its \$2 billion dollar offshore rupee programme.

They are debt instruments which help to raise money in local currency from foreign investors.

4. **Exercise EKUVERIN:**

Recent - The 14th edition of the exercise EKUVERIN is set to take place in Thiruvananthapuram, Kerala.

Ekuverin meaning 'Friends' in Dhivehi language started in the year 2009.

Ekuverin is one of the three major joint exercises between India and the Maldives.

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It is a bilateral military annual exercise conducted alternatively in India and Maldives.

The Exercise aims to enhance interoperability while carrying out counterinsurgency and Counter Terrorism operations in semi-urban, jungle and coastal terrain.

5. **Sanchar Saathi:**

Recent - The Department of Telecommunications (DoT) has made it mandatory for all newly manufactured or imported mobile phones in India to come with the Sanchar Saathi app pre-installed.

It is a security and awareness platform developed by the Department of Telecommunications (DoT).

It is available both as an app and a web portal.

Purpose: To help mobile users manage their digital identity, report suspicious activity, and safeguard their devices.

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DAILY DOSE

CURRENT AFFAIRS – 03/12/2025

1. Chaolung Sukapha:

Recent - the union Minister of Ports, Shipping & Waterways led a vibrant celebration of Assam Day and paid rich tributes to Chaolung Sukapha.

He was a visionary 13th-century ruler who founded the Ahom kingdom that ruled Assam for six centuries.

He is widely referred to as the architect of “Bor Asom” or “greater Assam” .

It was in Charaideo that Sukapha established his first small principality, sowing the seeds of further expansion of the Ahom kingdom.

2. Rock Eagle Owl:

Recent - a Rock Eagle Owl nest prompted the Telangana forest department to halt quarrying operations for over a month.

It is also called Indian eagle-owl (*Bubo bengalensis*) or Bengal eagle-owl.

It is a large-horned owl species native to hilly scrub forests in India.

Distribution: It is mainly found in South Asian countries like India, Nepal, Pakistan.

IUCN: Least Concern, CITES: Appendix II.

3. Chaprala Wildlife Sanctuary:

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Recent - A rare striated grassbird was recently recorded in Chaprala wildlife sanctuary in Gadchiroli district, marking a major range extension for the species in Maharashtra.

It is located in the Gadchiroli district of Maharashtra.

Established in 1986, it covers an area of approximately 134.78 sq.km.

The Markhanda and Pedigundam hills flank the sanctuary from northeast and south, and the Pranhita River flows along its western boundary.

It is located on the bank of the confluence of the Wardha and Wainganga rivers.

4. National Centre for Polar and Ocean Research:

Recent - the National Centre for Polar and Ocean Research (NCPOR) celebrated its Silver Jubilee and also released commemorative postage stamps.

It was established as an autonomous Research and Development Institution on the 25th May 1998.

It was formerly known as the National Centre for Antarctic and Ocean Research (NCAOR).

It has been at the forefront of leading India's scientific expeditions and research programmes in the Polar regions and the Southern Ocean.

Nodal Ministry: Ministry of Earth Sciences Government of India

Location: Vasco da Gama, Goa.

5. Chambal River:

Recent - Efforts to reclaim degraded land from Chambal ravines expose both people and biodiversity to ecological risks from erosion and flooding.

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The Chambal River, called Charmanvati in ancient times, is one of the major tributaries of the Yamuna River.

Located in Central India, the river forms part of the greater Gangetic drainage system.

It is known for its clear and pristine waters, and it is also one of the cleanest rivers in India.

It is a perennial river and has its source in Janapav, located to the south of Mhow Town close to Indore on the southern sides of the Vindhya Mountain Range in Madhya Pradesh.

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DAILY DOSE

CURRENT AFFAIRS – 04/12/2025

1. UNESCO's Creative Cities Network:

Recent - Lucknow has officially joined the UNESCO Creative Cities Network (UCCN) under the Gastronomy category during the 43rd Session of the UNESCO General Conference.

It was created in 2004 to promote cooperation among cities that have identified creativity as a strategic factor for sustainable urban development.

The network covers seven creative fields: crafts and folk arts, media arts, film, design, gastronomy, literature and music.

Indian Cities in the UCCN: Kozhikode (Literature) and Gwalior (Music) Jaipur (Crafts and Folk Arts), Varanasi (Music), Chennai (Music), Mumbai (Film), Hyderabad (Gastronomy), Lucknow (Gastronomy), and Srinagar (Crafts and Folk Arts).

2. Alaknanda Galaxy:

Recent - researchers at National Centre for Radio Astrophysics - Tata Institute of Fundamental Research (NCRA-TIFR), Pune, have discovered a spiral galaxy and named it as Alaknanda.

It is located about 12 billion light years away and has textbook spiral structure.

It is named after a Himalayan river Alaknanda and the Hindi word for the Milky Way.

The galaxy has two well-defined spiral arms wrapping around a bright central bulge, spanning approximately 30,000 light-years in diameter.

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3. Caller Name Presentation:

Recent - In the next few months, the Department of Telecommunications (DoT) will mandate telecom operators to show the KYC-registered name of all incoming callers using Indian phone numbers, a feature known as Caller Name Presentation (CNAP).

CNAP is a technology that enables mobile users to see an incoming caller's name, similar to Truecaller.

The system retrieves the caller's name from a telecom operator's database and displays it on the recipient's phone.

Unlike third-party apps, CNAP will rely on the official Customer Application Form (CAF) details provided during SIM registration.

4. Dudhwa Tiger Reserve:

Recent - A Rainbow Water Snake was recently spotted for the first time in Uttar Pradesh, with photographic evidence collected from the buffer area of Dudhwa Tiger Reserve.

It is located on the Indo-Nepal border in the district of Lakhimpur-Kheri in Uttar Pradesh.

It was established in 1988 and covers an area of 1,284 sq.km.

It includes the Dudhwa National Park and two nearby sanctuaries, viz. Kishanpur and Katerniaghata, besides forest areas of North Kheri, South Kheri, and Shahjahanpur forest divisions in its buffer.

5. Humpback Whales:

Recent - it was found that Humpback whale populations have surged from 10,000 to nearly 80,000 because of conservation efforts and the species' incredible ability to adapt and switch food sources.

The Humpback whale (*Megaptera novaeangliae*) is a species of baleen whale.

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It is a rorqual; a member of the family Balaenopteridae.

They undertake long migrations between polar feeding grounds in summer and tropical or subtropical breeding grounds in winter.

It has the distinctive hump on its back.

Its long pectoral fins inspired its scientific name, Megaptera, which means “big-winged”

Humpback females are larger than males.

Distribution: They inhabit all major oceans from sub-polar latitudes to the equator.

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CURRENT AFFAIRS – 05/12/2025

1. Assam Accord:

Recent - The Supreme Court recently asked the Centre if a new order allowing persecuted minorities entry to India violates the Assam Accord's 1971 deadline.

The Assam Accord was signed on 15th August, 1985, amongst the Union of India, the Govt. of Assam, the All Assam Students' Union (AASU), and the All Assam Gana Sangram Parishad.

The signing of the Accord brought an end to the 6-year-long agitation, the Assam Movement (1979-1985), aimed at dispelling foreigners from the state of Assam.

The aim of the accord was to detect and deport all immigrants in the state who had come to the territory post-24 March 1971.

2. Tensor Processing Unit (TPU):

Recent - According to reports, Meta is in advanced talks with Google to use its Tensor Processing Units (TPUs).

A TPU is a specialized chip designed to accelerate AI and machine learning (ML) tasks.

Unlike traditional computer processors (CPUs) or graphics processing units (GPUs), TPUs are specifically built to handle the complex calculations required for deep learning models.

TPUs were developed by Google in 2016 to improve the performance of their AI applications, such as Google Search, Google Translate, and Google Photos.

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3. World Soil Day 2025:

Recent - World Soil Day 2025 underscores the urgent need to restore and protect soil health as cities expand and environmental threats intensify.

It is held annually on 5 December as a means to focus attention on the importance of healthy soil and to advocate for the sustainable management of soil resources.

With support from the Food and Agriculture Organisation (FAO) and guidance from the Kingdom of Thailand, the initiative gained momentum.

In 2013, the United Nations General Assembly officially declared December 5 as World Soil Day, with the first celebration held in 2014.

WSD 2025 Theme: It carries the theme “Healthy Soils for Healthy Cities,” shifting attention from rural farmlands to the often-overlooked soil beneath urban landscapes.

4. ICGS Vigraha:

Recent - Indian Coast Guard Ship (ICGS) Vigraha undertook an operational visit to Indonesia as part of its overseas deployment to ASEAN countries.

It is the Offshore Patrol Vessels of the Indian Coast Guard which is commissioned in 2021.

It is indigenously built by L&T Ship Building Limited.

It is based in Visakhapatnam & operates on the eastern seaboard.

5. Horn-Eyed Ghost Crab:

Recent - researchers documented unique predatory behaviour of horn-eyed ghost crab at Rushikonda Beach.

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It belongs to the genus *Ocypode*.

Their pale bodies blend seamlessly with the sand, and combined with their swift movements during dawn and dusk, this has led to their common name, "ghost crabs".

It is widely regarded as a keystone species and indicator of coastal health.

Six species of ghost crabs have been reported along the Indian coastline.

Habitat: It is usually found in the intertidal zones.



DAILY DOSE

CURRENT AFFAIRS – 06/12/2025

1. Centre for Chronic Disease Control (CCDC):

Recent - new study by the Centre for Chronic Disease Control (CCDC) for the first time concurrently estimated the daily salt and iodine consumption levels of the adult population in India and examined the effect of the World Health Organization (WHO) recommended salt intake levels on iodine levels.

Established in 2000, CCDC is an independent, not-for-profit, biomedical research organization based in New Delhi.

It aims to reduce the burden of chronic diseases in India and low- and middle-income countries through surveillance, capacity building, and translational research in cardio-metabolic diseases.

It is a Scientific & Industrial Research Organization recognized by the Department of Scientific & Industrial Research, Ministry of Science and Technology, Government of India.

2. Dolomedes indicus:

Recent – in the evergreen rainforests of the Western Ghats, researchers recently identified a new species of spider named Dolomedes indicus.

It is a new species of spider.

It was discovered in the evergreen rainforests of the Western Ghats, in the Wayanad district of Kerala.

It marks the first time a spider of the Dolomedes genus, commonly known as raft or fishing spiders, has been described in India.

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3. Shani Shingnapur Temple:

Recent - The Ahilyanagar police cyber cell recently arrested two Shani Shingnapur Temple Trust employees for allegedly diverting over ₹50 lakh each into their personal accounts by manipulating online applications used for booking pooja services.

It is a Hindu temple located in the Ahmednagar district, Maharashtra.

It is dedicated to Lord Shanidev, the popular Hindu god associated with the planet Saturn.

The deity here is a five-and-a-half-feet-high black rock standing on a platform and is believed to be swayambhu (self-emerged).

Apart from the temple, Shingnapur is a small village which is also famous for the fact that in the whole village no house has doors, and despite this, no theft has been reported in the village.

4. Organization for Security and Cooperation in Europe:

Recent - foreign minister of Ukraine said at the Organization for Security and Cooperation in Europe that Ukraine wants "real peace, not appeasement" with Russia.

It is a dynamic organization that is dedicated to promoting peace, stability, and security throughout Europe and Central Asia.

It is the world's largest regional security organization.

Origin: The OSCE's origins date back to the early 1970s, to the Helsinki Final Act (1975) and the creation of the Conference on Security and Co-operation in Europe (CSCE), which during the Cold War served as an important multilateral forum for dialogue and negotiations between East and West.

In 1994, the CSCE was renamed the Organization for Security and Cooperation in Europe (OSCE) to reflect these changes more accurately.

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Member Countries: It consists of 57 participating States in North America, Europe and Asia. (India is not a member country).

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DAILY DOSE

CURRENT AFFAIRS – 08/12/2025

1. Cosmic Filament:

Recent - the University of Oxford researchers reported a roughly 50-million-lightyear-long cosmic Filament traced by at least 14 galaxies.

Cosmic or galaxy filaments are the largest ‘threads’ in the universe’s cosmic web.

Size: A single cosmic filament is a structure spanning hundreds of millions of lightyears.

These filaments are the largest known structures in the Universe which are vast, thread-like formations of galaxies and dark matter that form a cosmic scaffolding.

These cosmic web filaments serve as the nurseries where galaxies grow by accreting pristine gas that fuels their star formation.

2. Haemorrhagic Septicaemia:

Recent - ten blackbucks have died in Jharkhand's Jamshedpur in Zoological Park due to suspected Haemorrhagic Septicaemia.

It is also known as Pasteurellosis.

It is a bacterial disease caused by certain serotypes of *Pasteurella multocida*.

The two common serotypes of *P. multocida* associated with the disease in these species are types B:2 (in Asia) and E:2 (in Africa)

These are geographically restricted to some areas of Asia, Africa, the Middle East and southern Europe.

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It is a major disease of cattle and buffaloes characterised by an acute, highly fatal septicaemia with high morbidity and mortality.

In both species, young animals and young adults are more susceptible than older animals.

3. Hoolock Gibbon:

Recent - a stranded family of Hoolock gibbons was rescued in Arunachal Pradesh's Lower Dibang Valley district by officials.

Gibbons, the smallest and fastest of all apes, live in tropical and subtropical forests in the southeastern part of Asia.

The hoolock gibbon is one of 20 species of gibbons on Earth.

Its distribution in Southeast Asia spans India, Myanmar, Bangladesh, and southern China.

It is the only ape found in India.

In India, it is found in Assam, Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram, and Tripura, south of the Brahmaputra.

4. National Intelligence Grid:

Recent - officials said that the National Intelligence Grid (NATGRID) is slowly gathering pace and receiving 45k requests a month.

It is a platform for the police and investigating agencies to securely access government and private databases in real time.

It is conceptualised as a seamless and secure database for information on terrorists, economic crimes and similar incidents to help bolster India's capabilities.

The project was started in 2009 in the aftermath of the 26/11 Mumbai terror attacks.

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NATGRID was set up as an attached Office of the Ministry of Home Affairs with effect from December 1, 2010.

It started its operations on December 31, 2020.

5. Investor Education and Protection Fund Authority:

Recent - the Investor Education and Protection Fund Authority (IEPFA) collaborated with the Securities and Exchange Board of India (SEBI) organised a “Niveshak Shivir” in Jaipur

It was established in 2016 under the Companies Act, 2013.

Purpose: It is dedicated to promoting investor awareness and protection through sustained outreach, education, and strategic collaborations.

It manages the Investor Education and Protection Fund (IEPF) and promotes investor awareness and financial protection.

Nodal Ministry: Ministry of Corporate Affairs.

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DAILY DOSE

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DAILY DOSE

CURRENT AFFAIRS – 09/12/2025

1. Monroe Doctrine:

Recent - The US National Security Strategy, released recently, described Trump's vision as one of "flexible realism" and argued that the U.S. should revive the 19th-century Monroe Doctrine, which declared the Western Hemisphere to be Washington's zone of influence.

The Monroe Doctrine, articulated by U.S. President James Monroe in 1823, is a significant U.S. foreign policy statement aimed at preventing European intervention in the Americas.

Primarily the work of Secretary of State John Quincy Adams, the Monroe Doctrine forbade European interference in the American hemisphere but also asserted U.S. neutrality in regard to future European conflicts.

2. UN Environment Assembly:

Recent - the seventh UN Environment Assembly (UNEA-7) is taking place in Nairobi, Kenya.

It is the world's highest-level decision-making body on the environment.

Member Countries: It has the universal membership of all 193 UN Member States and the full involvement of major groups and stakeholders.

It gathers ministers of environment in Nairobi, Kenya every 2 years.

Background: UNEA was created in 2012, as an outcome of the UN Conference on Sustainable Development (Rio+20), held in Brazil.

3. Sudden Stratospheric Warming Event:

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Recent – a meteorologist warned of another Sudden Stratospheric Warming (SSW) event that could plunge temperatures below average across parts of the U.S. later this month.

It refers to a rapid rise in stratospheric temperatures that weakens or distorts the polar vortex (a cold-air mass typically stabilized over the Arctic).

It begins with large-scale atmosphere waves (called Rossby waves) getting pushed higher into the atmosphere.

These waves can “break” (like waves in the ocean) on top of the polar vortex and weaken it. If waves are strong enough, the winds of the polar vortex can weaken so much that they can reverse from being westerly to easterly.

This leads to cold air descending and warming rapidly.

It can lead to a displacement or splitting of the polar vortex, so instead of cold air being locked above the polar region, it can push further south into the mid-latitudes.

4. India International Science Festival:

Recent - The 11th edition of India International Science Festival is being held in Panchkula, Haryana.

It was launched in 2015.

IISF aims to bring together people and the scientific community both nationally and internationally to collaborate, interact, and experience the joy of doing science for the wellbeing of India and humanity, guided by the spirit of swadeshi.

It is organised by the Ministry of Earth Sciences (MoES) and coordinated by Indian Institute of Tropical Meteorology (IITM) Pune.

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The theme of India International Science Festival (IISF) 2025: “Vigyan Se Samruddhi: for Aatmanirbhar Bharat”.

5. Bluetongue Virus (BTv):

Recent - More suspected cases of bluetongue virus (BTv) have been recently detected in Northern Ireland.

It is responsible for causing the severe haemorrhagic disease, bluetongue (BT).

It is an infectious, non-contagious, vector-borne disease.

It can infect domestic ruminants, including cattle, sheep, and goats, along with wild animals such as buffalo, deer, antelope, and camels.

Of the domestic species, sheep are the most severely affected.

BTv is present in all continents except Antarctica.

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DAILY DOSE

CURRENT AFFAIRS – 10/12/2025

1. **Asemonea Dentis and Colyttus Nongwar:**

Recent - Scientists of the Zoological Survey of India (ZSI) recently identified two new species of jumping spiders, *Asemonea dentis* and *Colyttus nongwar*, in the forested terrains of the Northeast.

These are two new species of jumping spiders discovered in Meghalaya.

Both species belong to the Salticidae family, the tribe of “jumping spiders” known for their sharp vision, rapid reflexes and predatory precision.

Unlike traditional web-weavers, these spiders stalk their prey with stealth before springing in a split-second leap.

2. **AviSpray-10c:**

Recent - AironiX Drones, a Chennai-based deep-tech drone company, recently announced the launch of its latest agricultural innovation, the AviSpray-10c.

It is a compact, backpack-sized spraying drone 53% smaller than the current generation.

It was developed by the AironiX Drones, a Chennai-based deep-tech drone company focused on precision farming and defence technologies.

It is designed to significantly reduce the cost, operational complexity, and manpower requirements of drone-based crop spraying in India.

3. **Solar Storm:**

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Recent - India's first solar observatory Aditya-L1 played a key role in helping scientists decode why the strongest solar storm in more than two decades that struck Earth in May 2024 behaved so unusually, ISRO said recently.

A solar storm is a sudden explosion of particles, energy, magnetic fields, and material blasted into the solar system by the Sun.

The Sun creates a tangled mess of magnetic fields.

These magnetic fields get twisted up as the Sun rotates — with its equator rotating faster than its poles.

Solar storms typically begin when these twisted magnetic fields on the Sun get contorted and stretched so much that they snap and reconnect (in a process called magnetic reconnection), releasing large amounts of energy.

4. Sultanpur National Park:

Recent - Sultanpur National Park is once again echoing with the sounds of migratory birds, with their numbers rising significantly as temperatures drop.

Sultanpur National Park, formerly known as Sultanpur Bird Sanctuary, is located in the Gurgaon district in Haryana, 46 km from Delhi.

It was recognised as a Ramsar site in 2021.

It has been identified as an Important Bird Area by BirdLife International.

5. African Penguin:

Recent - a new study found that over 60,000 African penguins starved to death between 2004 and 2011 after sardine stocks collapsed.

The African penguin (*Spheniscus demersus*) is a species of penguin that lives in southern African waters.

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It is flightless and adapted for a marine habitat.

Breeding: The species breeds naturally in burrows dug into guano (a natural substance composed of the excrement of birds, bats, and seals), which protects them from the extreme heat of their environment.

Appearance: It has a black stripe and a pattern of unique black spots on its chest, as well as pink glands above its eyes that become pinker as the penguin gets hotter.

Penguins can lose almost half their body mass during their annual 21-day moult.

Distribution: It is mainly found along the coast of Namibia and the Atlantic coast of South Africa.

Conservation Status: IUCN: Critically Endangered.

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DAILY DOSE

CURRENT AFFAIRS – 11/12/2025

1. NewSpace India Limited (NSIL):

Recent - As on date, M/s. NewSpace India Limited (NSIL) has signed 70 Technology Transfer Agreements to transfer technologies developed at ISRO to Industry.

NSIL, incorporated on 6 March 2019 (under the Companies Act, 2013) is a wholly owned Government of India company, under the administrative control of Department of Space (DOS).

It is the commercial arm of Indian Space Research Organisation (ISRO).

Enabling Indian industries to take up high technology space related activities.

Promotion and commercial exploitation of the products and services emanating from the Indian space programme.

2. Rhinophis siruvaniensis:

Recent – a new shieldtail species, *Rhinophis siruvaniensis*, has been described with the help of citizen scientists after it was found recently in the Siruvani Hills which fall in both Kerala and Tamil Nadu.

It is a new species of shieldtail snake.

It was discovered in Siruvani Hills, located in the Western Ghats in Kerala and Tamil Nadu.

A shiny snake, *R. siruvaniensis* is brownish black and creamy white in colour, with bold dark blotches.

The tip of its tail is dome-shaped.

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They are endemic to India & Sri Lanka.

In India, they are found in the Western Ghats and some parts of Peninsular India.

3. 'Your Money, Your Right' Movement:

Recent - The Prime Minister recently called upon citizens to take part in the 'Your Money, Your Right' movement.

It was launched by the central government in October 2025.

It is an initiative aimed at enabling people to reclaim their unclaimed deposits, insurance proceeds, dividends, and other financial assets.

The effort brings together government agencies, regulators, banks, and financial institutions to identify and return long-forgotten funds.

The deposits in accounts which are not operated for a period of 10 years are classified as unclaimed deposits.

4. Deepavali:

Recent - Deepavali has been inscribed on UNESCO's List of the Intangible Cultural Heritage of Humanity.

Deepavali, also known as Diwali, is the festival of lights celebrated across India.

'Deepa' means lamp or light and 'Vali' means string or row, and Deepavali means rows of lights.

It is celebrated on Kartik Amaavasya, which typically falls in October or November.

It is added as the 16th Indian element on UNESCO's List of the Intangible Cultural Heritage of Humanity.

5. SAMPANN Portal:

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Recent - Controller General of Communication Accounts (CGCA) recently inaugurated the onboarding of all MTNL employees retiring in November 2025 onto the SAMPANN portal at the Office of Principal CCA, Delhi.

SAMPANN, or “System for Accounting and Management of Pension”, is a Comprehensive Pension Management System (CPMS).

It is an initiative undertaken by the Controller General of Communication Accounts (CGCA), Department of Telecommunications, Ministry of Communications.

It is an online pension processing and payment system for Department of Telecommunications pensioners.

It was launched on 29th December, 2018.

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DAILY DOSE

CURRENT AFFAIRS – 12/12/2025

1. Boreendo:

Recent - Boreendo, an ancient musical instrument from Pakistan, was recently inscribed on the UNESCO's List of Intangible Cultural Heritage in Need of Urgent Safeguarding.

The boreendo, or bhorindo, is a traditional musical instrument from Pakistan's Sindh region.

It is a 5,000-year-old musical instrument with a rich history that originates in Mohenjo Daro, part of the Indus Valley Civilisation.

It has a hollow, spherical shape with sound holes and is made of clay that is sun-dried and kiln-fired.

It is played by men, while women are involved in decorating the instrument with clay paint.

2. Pallas's Gull:

Recent - The rare migratory Pallas's Gull was recently spotted in Jharkhand's Udhwa Bird Sanctuary, marking its return after almost a decade.

Pallas's Gull, also called the Great Black-headed Gull, is a large bird species.

It is the world's largest black-headed gull and the third-largest species of gull in the world.

It belongs to the family Laridae.

Scientific Name: *Ichthyaetus ichthyaetus*

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It breeds in colonies in marshes and islands from southern Russia to Mongolia.

It is migratory, wintering in the Mediterranean Sea, the Arabian Peninsula, and India.

Habitat: It prefers wetlands, salt lakes, lagoons, and slow-flowing rivers.

3. National Film Heritage Mission (NFHM):

Recent - In response to a question in Lok Sabha recently, the Minister of State for Information & Broadcasting said that till date 1,469 titles, equaling 4.3 lakh minutes of films, have been digitized under the National Film Heritage Mission (NFHM).

It was launched in 2015 by the Ministry of Information and Broadcasting for restoring and preserving the film heritage of India.

Implementation Agency: National Film Archive of India, Pune.

4. Diving Support Craft A20:

Recent - The Indian Navy will commission Diving Support Craft (DSC) A20, at Kochi under the aegis of Southern Naval Command.

It is the first vessel of the indigenously designed and constructed Diving Support Craft.

DSC A20 is the lead ship in a series of five Diving Support Craft being built by M/s Titagarh Rail Systems Limited (TRSL), Kolkata.

Purpose: It is built for a wide spectrum of diving and underwater missions in coastal waters.

5. Agentic AI:

Recent – Satya Nadella, Chairman and CEO of Microsoft, recently observed that India is witnessing strong momentum in the deployment of AI and agentic AI applications.

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Agentic AI is an advanced form of artificial intelligence focused on autonomous decision-making and action.

It consists of AI agents—machine learning models that mimic human decision-making to solve problems in real time.

Unlike traditional AI, which primarily responds to commands or analyzes data, agentic AI can set goals, plan, and execute tasks with minimal human intervention.

“Agentic” indicates agency — the ability of these systems to act independently, but in a goal-driven manner.

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DAILY DOSE

CURRENT AFFAIRS – 13/12/2025

1. Sujalam Bharat App:

Recent - the Union Minister of Jal Shakti launched the Sujalam Bharat App.

It is a key digital initiative designed to transform rural drinking water governance.

It has been developed with the support of Bhaskaracharya National Institute for Space Applications and Geo-informatics (BISAG-N).

It enables advanced geo-referencing, monitoring and management of rural water supply infrastructure under Jal Jeevan Mission.

2. Hard Corals:

Recent - major new assessment by the Global Coral Reef Monitoring Network (GCRMN) has reported a dramatic decline in hard coral populations across the Caribbean.

Hard corals, also known as stony corals, are marine animals that build the limestone frameworks upon which reefs form.

They grow in colonies and are often referred to as “reef-building corals.”

They are composed of thousands of tiny polyps that secrete calcium carbonate.

Hard corals create skeletons out of calcium carbonate, a hard substance that eventually becomes rock.

3. Uchi Pillaiyar Temple:

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Recent - The Tamil Nadu government recently informed the Madurai Bench of the Madras High Court that the deepam (lamp) was lit at the Uchipillaiyar temple mandapam in Thirupparankundram hill during Karthigai Deepam this year too as it was done for over the last 150 years.

The Uchi Pillaiyar Temple, also known as Rockfort Temple, is located at the top of Rockfort Hill, Trichy, in Tamil Nadu.

It is a 7th-century-CE Hindu temple, dedicated to Lord Ganesha.

It is one of the oldest rock formations in the world.

The smooth rock was first cut by the Pallavas, but it was the Nayaks of Madurai who completed the temples under the Vijayanagara empire.

There are three temples located closely on the rock fort:

- Maanikka Vinayakar Temple situated at the foothill, dedicated to Lord Ganesha.
- Uchchi Pillayar Temple at the top of the hill, dedicated to Lord Ganesha.
- Thayumanaswamy Temple, dedicated to Lord Shiva, situated close to the base of the rockfort on the way to Uchchi.

4. Supernova:

Recent - A distant gamma-ray burst has led astronomers to a rare supernova from the Universe's early years, revealed recently by the James Webb Space Telescope (JWST).

A supernova is the name given to the cataclysmic explosion of a massive star.

They are the largest explosions that take place in space.

Type I Supernova: A star accumulates matter from a nearby neighbor until a runaway nuclear reaction ignites.

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Type II Supernova: A star runs out of nuclear fuel and collapses under its own gravity.

It can emit more energy in a few seconds than our sun will radiate in its lifetime of billions of years.

5. Kaimur Wildlife Sanctuary:

Recent - A forest department team seized a large number of deer heads, horns, and animal flesh and arrested a poacher during a raid in the Kaimur Wildlife Sanctuary recently.

It is located in the Kaimur District of Bihar.

It is located in the famous Kaimur Hills range.

The Kaimur Hills, known for their invincibility, are home to two forts and the ancient Mundeshwari Temple, one of the oldest Hindu temples in India.

It is the largest sanctuary in the state and occupies an area of about 1342 sq.km.

It is bounded by the Son River to the north and the Karmanasa River to the south.

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DAILY DOSE

CURRENT AFFAIRS – 15/12/2025

1. Red-Shanked Douc Monkey:

Recent - customs officials at the Kempegowda International Airport (KIA) arrested a passenger who was smuggling two red-shanked douc monkeys.

The Red-shanked douc (*Pygathrix nemaeus*) is an Old World monkey which is considered as a “Queen of primates”.

Habitat: They occur in subtropical and tropical broadleaf evergreen or semi-deciduous forests and to a lesser extent in secondary evergreen and mixed bamboo forests.

Distribution: Red-shanked doucs are found in Southeast Asia mainly in Vietnam, Southern Laos and Cambodia.

2. Dandami Madia Tribe:

Recent - members of the Dandami Madia tribe perform the traditional Bison Horn Maria dance during a village festival at Judiya Para in Jagdalpur.

Dandami Maria, also known by other names like Bison Horn Maria and Khalpati Maria.

It is a tribal community which lives in Chhattisgarh.

They have derived their name from their unique custom of wearing a distinctive head-gear, which resembles the horns of a wild bison.

They generally wear that head-gear during ceremonies.

3. Perumbidugu Mutharaiyar:

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Recent - a commemorative postage stamp in honour of the king Perumbidugu Mutharaiyar II (Suvaran Maran) was released by the Vice President of India.

Suvaran Maran was also known as Shatrughayankar.

He is believed to have fought bravely in several battles alongside the Pallava king Nandivarman, and is remembered as a great administrator.

Mutharaiyars

They were the feudatories of the Pallavas.

As the Pallavas' rule weakened, many such chiefs earned more power and prominence and were treated as rulers in their own right.

The Mutharaiyars held sway over areas including Thanjavur, Pudukkottai, Perambalur, Tiruchirappalli, and others near the Cauvery river.

4. Moei River:

Recent - Promises of data-entry jobs drew young men from the State of Gujarat across the Moei River into Myanmar's alleged cyber-fraud compounds.

The Moei River, known in Myanmar as the Tonge Yin River, is an important river in northern Thailand.

It is a tributary of the Salween River.

Originates in the Tenasserim Hills (Myanmar–Thailand border region)

Unlike most rivers in Thailand, the Moei River flows north in a northwest direction.

This river serves as a natural border between Thailand and Myanmar.

Key Towns Along the River - Mae Sot (Thailand), Myawaddy (Myanmar).

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5. Chakrashila Wildlife Sanctuary:

Recent - Community-led conservation efforts at the Chakrashila Wildlife Sanctuary have successfully restored wild honey bee colonies and revitalized associated wildlife.

It is located in the Kokrajhar and Dhubri districts of Assam.

The sanctuary is well-known as the second protected habitat for the endangered golden langur, hosting over 600 individuals.

It spans over 45.5 sq.km. of hilly terrain and dense forests.

There are two lakes (Dheer Beel and Diplai Beel) on either side, which are integral to the ecosystem of the sanctuary.

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DAILY DOSE

CURRENT AFFAIRS – 16/12/2025

1. Centralised Public Grievance Redress and Monitoring System (CPGRAMS):

Recent - India's Centralised Public Grievances Redressal and Monitoring System (CPGRAMS) has seen a 74% reduction in public grievance pendency since 2021.

CPGRAMS is an online platform available to the citizens 24x7 to lodge their grievances to the public authorities on any subject related to service delivery.

It was developed and monitored by the Department of Administrative Reforms and Public Grievances (DARPG), Ministry of Personnel, Public Grievances, and Pensions.

It is a single portal connected to all the ministries/departments of the Government of India and States.

Every ministry and state have role-based access to this system.

2. Gestational Diabetes Mellitus:

Recent - A study conducted at seven antenatal clinics with over 3,000 women, found that early gestational diabetes mellitus (GDM) affects about one in five pregnant women.

Gestational Diabetes Mellitus (GDM) is glucose intolerance first diagnosed during pregnancy, and is typically diagnosed between 24-28 weeks gestation.

It happens when the hormones from the placenta block your ability to use or make insulin.

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Symptoms: Most of the time, gestational diabetes doesn't cause symptoms but it includes excessive thirst, urinating more often, fatigue, nausea.

3. Vellode Bird Sanctuary:

Recent - Migratory birds have begun arriving at the Vellode Bird Sanctuary at Vadamugam Vellode, located 12 km from Erode.

It is one of the most famous bird sanctuaries located in the state of Tamil Nadu.

The sanctuary receives rainfall from the Northeast monsoon between September and December.

It is part of an important migratory bird flyway (central asia flyway).

It serves as a breeding ground for both resident and migratory birds.

4. Artemisinin:

Recent - new study has found that any place with heavy artemisinin use and favourable conditions could become a new hotspot for resistance, and that in some parts of Africa, the frequency of resistance markers is gradually increasing.

It is an antimalarial drug derived from the sweet wormwood plant, *Artemisia annua*.

The process involves drying the leaves and using a solvent to extract the active ingredient.

Discovery of artemisinin's therapeutic benefits in the 1970s was a breakthrough in malaria treatment.

It mainly targets the malaria parasite during the blood stage, disrupting the parasite's ability to replicate within red blood cells.

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It helps significantly reduce the parasites but doesn't stay in the body for a long time, being eliminated within hours.

5. Project Mausam:

Recent - The Archaeological Survey of India (ASI) recently organised a National Workshop on the Project Mausam titled as - "Islands at the Crossroads of Maritime Networks within Indian Ocean Region".

It is an Indian government-led cultural-diplomacy and maritime heritage initiative launched in 2014 by the Ministry of Culture.

It aims to explore the multi-faceted Indian Ocean 'world' - collating archaeological and historical research in order to document the diversity of cultural, commercial, and religious interactions in the Indian Ocean.

A total of 39 Indian Ocean countries have been identified under Project Mausam.

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DAILY DOSE

CURRENT AFFAIRS – 17/12/2025

1. Ekam AI and SAMBHAV:

Recent - the Indian Army showcased a wide range of homegrown technologies Ekam AI and SAMBHAV project during Vijay Diwas celebration.

Ekam AI

It is a fully indigenous and secure artificial intelligence platform designed for sensitive environments.

Significance: It ensures complete data security and sovereignty, Ekam AI marks a significant step towards building trusted national digital systems.

SAMBHAV

It is a portable communication system that provides mobile connectivity using satellite support.

Significance: The project highlights how defence innovation can also strengthen national communication infrastructure.

2. Channa Bhoi:

Recent - Scientists recently discovered a new species of snakehead fish named Channa bhoi from Meghalaya.

It is a new species of snakehead fish.

It was discovered from a small mountain stream near Lewmawlong village in the Ri-Bhoi district of Meghalaya.

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It has been named Channa bhoi, after the indigenous Bhoi people of the Khasi tribe who inhabit the Ri-Bhoi region.

It belongs to the “Gachua group” of snakehead fishes, a group known for its high diversity in the Eastern Himalayan region.

3. National Digital Livestock Mission:

Recent - the Minister of Fisheries, Animal Husbandry and Dairying, Government of India, informed the Lok Sabha about the National Digital Livestock Mission (NDLM).

It was launched by the Department of Animal Husbandry and Dairying, Government of India for creating a digital database of livestock and related services across the country.

Aims: To enhance livestock productivity and breed improvement, strengthen disease surveillance and control, enable traceability of livestock products and create a farmer-centric digital ecosystem for efficient service delivery.

It has been implemented across all States in India.

4. DHRUV64:

Recent - India unveiled its first fully indigenously developed microprocessor DHRUV64.

It is a fully indigenously developed microprocessor of India.

It is developed by the Centre for Development of Advanced Computing (C-DAC) under the Microprocessor Development Programme (MDP).

5. Narpuh Wildlife Sanctuary:

Recent - scientists warned that Narpuh Wildlife Sanctuary is undergoing conservation challenges particularly from limestone mining and cement factories.

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Location: It is situated in East Jantia Hills in Jowai, Meghalaya.

It was declared a wildlife sanctuary in 2014 and is the only protected area in the Jaintia Hills.

The Sanctuary is bounded by Reserve Forests on all sides except a part in South West which shares a boundary with the State of Assam.

Rivers: The northern part of the sanctuary is bounded by Lukha River forming a physical barrier.

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DAILY DOSE

CURRENT AFFAIRS – 18/12/2025

1. Altermagnetism in RuO₂:

Recent - the Japanese researchers have experimentally confirmed ruthenium dioxide as an altermagnet, a third fundamental magnetic class distinct from ferromagnets and antiferromagnets.

Altermagnetism is now recognised as the third fundamental class of magnetism, distinct from ferromagnetism and antiferromagnetism.

In altermagnetic materials, magnetic moments alternate, but their arrangement follows complex symmetry operations such as rotation and reflection, rather than simple up-down cancellation.

This leads to a net-zero external magnetic field, similar to antiferromagnets, but with internal electronic spin splitting comparable to ferromagnets.

Ruthenium dioxide (RuO₂) thin films have been experimentally demonstrated to exhibit true altermagnetism, resolving long-standing global inconsistencies.

The discovery was made by a joint research team from National Institute for Materials Science (Japan), University of Tokyo, Kyoto Institute of Technology, and Tohoku University, and published in Nature Communications.

2. Exercise “Desert Cyclone II”:

Recent - The Ministry of Defence informed that an Indian Army contingent has departed for the United Arab Emirates (U.A.E.) to participate in the second edition of the Joint Military Exercise Desert

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Cyclone II, scheduled to be conducted at Abu Dhabi from 18–30 December 2025.

Desert Cyclone II is the second edition of the India–U.A.E. Joint Military Exercise, following the inaugural edition held in 2024.

3. Battle of Adwa:

Recent - The Indian Prime Minister recently laid a wreath at the Adwa Victory Monument in Addis Ababa, paying tribute to Ethiopia's historic victory in the 1896 Battle of Adwa.

It was fought by the Ethiopian Empire, which was then known as Abyssinia, and Italy on March 1, 1896, near Adwa, Ethiopia, as the concluding battle of the First Italo-Ethiopian War (1895–1896).

The conflict stemmed from Italy's ambitions to establish an empire in Africa, which was part of the broader "scramble for Africa" among European powers.

This battle saw the Ethiopian Empire, led by Emperor Menelik II, successfully defeat an invading Italian force.

4. India Coast Guard Ship (ICGS) Sarthak:

Recent - The Indian Coast Guard (ICG) Ship Sarthak, an Offshore Patrol Vessel, recently made a port call at Chabahar, Iran.

It is the fourth in the series of five Offshore Patrol Vessels (OPVs) being built by Goa Shipyard for the Indian Coast Guard (ICG).

These OPVs are multi-mission platforms capable of undertaking concurrent operations.

ICGS Sarthak was commissioned on October 28, 2021.

5. Annatto:

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Recent - As informed by the Council of Scientific and Industrial Research (CSIR), the CSIR-Central Food Technological Research Institute (CSIR-CFTRI), Mysuru had undertaken four Grant-in-Aid projects related to the study and development of annatto.

It is a natural food colouring and flavoring agent obtained from the seeds of the achiote tree (*Bixa orellana*), native to the tropical regions of the Americas.

About 70% of natural food colors come from annatto.

It adds a yellow-orange color to foods like cheese, butter, yogurt, sausage, smoked fish, ice cream, and baked goods.

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DAILY DOSE

CURRENT AFFAIRS – 19/12/2025

1. SabhaSaar Initiative:

Recent - the Union Minister informed the Rajya Sabha about the SabhaSaar initiative.

It is an AI-enabled voice-to-text meeting summarisation tool.

It is launched by the Ministry of Panchayati Raj.

SabhaSaar has been made available to all States/UTs, and Gram Panchayats are progressively adopting it for routine Gram Sabha and Panchayat meetings.

The AI model used in SabhaSaar operates on AI and cloud infrastructure provisioned through the India AI Compute Portal under the India AI Mission of MeitY.

2. Development Communication and Information Dissemination Scheme:

Recent - the Minister of State for Information and Broadcasting informed the Lok Sabha about the Development Communication and Information Dissemination Scheme.

It is a Central Sector Scheme of the Ministry of Information and Broadcasting.

It supports the information dissemination and citizen outreach of Government programmes/ schemes/initiatives.

It emphasizes on reaching out to the rural, tribal, remote and urban populations across the country.

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Implementation: The scheme is implemented by the Ministry of Information and Broadcasting through its media units - Central Bureau of Communication (CBC), Press Information Bureau (PIB), and New Media Wing (NMW).

3. Freshwater Sponge:

Recent - scientists from Bose Institute studied freshwater sponges from the Sundarban delta and identified their potential to act as bioindicators of toxic metal pollution.

Freshwater sponges are the earliest multicellular eukaryotes.

They filter large volumes of water and are vital for ecosystem health.

Habitat: They grow on sturdy submerged objects in clean streams, lakes, and rivers.

Sponges are filter feeders. They obtain food from the flow of water through their bodies and from symbiotic algae.

4. Kheoni Wildlife Sanctuary:

Recent - the forest department officially recorded sightings of two Wild Dogs (Dholes) in Kheoni wildlife sanctuary.

Location: It is located in the state of Madhya Pradesh.

It is joined through the Ratapani Tiger Reserve corridors with.

Vegetation: The sanctuary's habitat consists of dry deciduous forests.

5. National Council of Science Museums (NCSM):

Recent - The National Council of Science Museums (NCSM) recently received two prestigious PRSI National Awards 2025 from the Public Relations Society of India (PRSI).

It is an autonomous society under the Ministry of Culture, Government of India.

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It was formed on April 4, 1978.

NCSM, with its headquarters in Kolkata, has its own network of 26 science museums/centres spread across the country and a Central Research & Training Laboratory (CRTL) in Kolkata.

CRTL is the Council's central hub for professional training, research, and development.

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DAILY DOSE

CURRENT AFFAIRS – 20/12/2025

1. Hainan Island:

Recent - China recently split off Hainan Island, with an economy comparable to a mid-ranked country, from the mainland for customs processing, part of a bid to join a major trans-Pacific trade deal and establish a new Hong Kong-style commercial hub.

It is a tropical island at the southernmost of China.

It is situated in the northeastern part of the Beibu Gulf, across the Qiongzhou Strait from mainland China.

It's known as the "Hawaii of China,".

It has a land area of 35,400 sq.km. It is the largest island administered by the People's Republic of China.

It has a population of about 10 million.

Its provincial capital is Haikou, known as the "Coconut City".

2. National Scheduled Caste and Scheduled Tribe Hub (NSSH) Scheme:

Recent - The Ministry of Micro, Small and Medium Enterprises (MSME) has intensified efforts to promote entrepreneurship among SC and ST communities through the National Scheduled Caste and Scheduled Tribe Hub (NSSH) Scheme.

It is one of the flagship schemes of the Ministry of Micro, Small & Medium Enterprises.

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It is implemented by the National Small Industries Corporation Ltd. (NSIC).

NSSH is aimed at capacity enhancement of SC/ST entrepreneurs and promoting "entrepreneurship culture" amongst the SC/ST population.

3. Antariksh Prayogshala (Space Labs):

Recent - The Indian National Space Promotion and Authorisation Centre (IN-SPACe) recently rolled out a Request for Proposal (RfP) to establish Antariksh Prayogshala (Space Labs) at select academic institutions across India.

It is an initiative of the Indian National Space Promotion and Authorisation Centre (IN-SPACe).

It is a first-of-its-kind initiative aimed at creating state-of-the-art space laboratories within Indian academic institutions.

These labs will provide hands-on training to students pursuing space tech courses in academic institutes spread across the country.

4. TIDE 2.0 Scheme:

Recent - the Union Minister for Electronics and Information Technology informed the Rajya Sabha about the TIDE 2.0 Scheme.

The “Technology Incubation and Development of Entrepreneurs 2.0 (TIDE 2.0)” Scheme was launched in the year 2019.

It promotes technology-based entrepreneurship by providing financial & technical support to incubators engaged in supporting ICT startups primarily engaged in using emerging technologies such as IoT, AI, Block-chain, Robotics etc.

5. Erivan Anomalous Blue:

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Recent - Armenia has unveiled the logo for the 17th Conference of the Parties (COP17) to the Convention on Biological Diversity which includes Erivan Anomalous Blue at its centre.

The *Polyommatus eriwanens*, also known as Erivan Anomalous Blue, is a blue butterfly.

It is found only in and around Yerevan (Armenia).

The Erivan Anomalous Blue gives one generation per year.

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DAILY DOSE

CURRENT AFFAIRS – 22/12/2025

1. Chillai-Kalan:

Recent - Kashmir braces for a spell of rain and snowfall and the region is also set to enter ‘Chillai Kalan’.

It is the 40-day period of the harshest winter cold in Kashmir region.

Chillai Kalan is a Persian term which means “Major Cold”.

The Chillai Kalan (big cold) usually begins on December 21 and will end on January 30.

Chillai Kalan is followed by ‘Chillai-Khurd’ (small cold) – a 20-day period of moderate winter from January 31 to February 19, and the 10-day ‘Chillai-Bacha’ (baby cold), towards the fag end of the winter season from February 20 to March 2.

According to Persian tradition, the night of 21st December is celebrated as Shab-e Yalda-“Night of Birth”, or Shab-e Chelleh. – “Night of Forty”.

2. Raccoon Roundworm:

- Europe is on alert after a new study revealed the raccoon roundworm, *Baylisascaris procyonis*, has firmly taken hold in wild raccoons across nine countries.

The raccoon roundworm (*Baylisascaris procyonis*) is the common large roundworm or ascarid found in the small intestinal tract of raccoons.

It infects raccoons in parts of North America, Europe and Japan, and less commonly in South America.

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The parasite is indigenous to North America and emerging in Europe and Asia after the introduction of North American raccoons for the commercial fur trade in the early 20th century.

It can cause severe disease in humans and other animals.

3. World Anti-Doping Agency:

Recent - for the third consecutive year, India has topped the World Anti-Doping Agency's (WADA) global list of offenders.

It was established in 1999 as an international independent agency to lead a collaborative worldwide movement for doping-free sport.

Role: To develop, harmonize and coordinate anti-doping rules and policies across all sports and countries.

Its activities include scientific and social science research; education; intelligence & investigations; development of anti-doping capacity; and monitoring of compliance with the World Anti-Doping Program.

Headquarter: Montreal, Canada.

4. Rapid Financing Instrument:

Recent - The International Monetary Fund (IMF) has approved USD 206 million in emergency funding for Sri Lanka under the Rapid Financing Instrument (RFI) following the devastation caused by Cyclone Ditwah.

The Rapid Financing Instrument (RFI) is an IMF emergency lending facility that provides quick, low-access financial assistance to member countries facing urgent balance-of-payments (BoP) needs, especially during crises such as natural disasters, external shocks, or domestic instability.

5. National Maritime Heritage Complex (NMHC):

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Recent - India and the Netherlands have signed an MoU to cooperate on the development of the National Maritime Heritage Complex (NMHC) at Lothal, Gujarat.

The NMHC is a flagship cultural and heritage project of the Ministry of Ports, Shipping and Waterways (MoPSW).

Aimed at showcasing India's 4,500–5,000-year-old maritime legacy through a world-class museum and cultural complex.

Nodal Ministry: Ministry of Ports, Shipping and Waterways

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DAILY DOSE

CURRENT AFFAIRS – 23/12/2025

1. Kuttanad Wetland Agricultural System:

Recent - the soil tests in Kuttanad paddy fields which are part of Kuttanad Wetland Agricultural System in Kerala showed increased level of aluminium concentrations in paddy fields.

It is unique and the only system in India that favours rice cultivation below sea level.

Recognition: The Kuttanad Below Sea-level Farming System recognised under Globally Important Agricultural Heritage Systems (GIAHS) of Food And Agriculture Organisation.

2. Ghost Pairing:

Recent - the Indian Computer Emergency Response Team (CERT-In) has issued an advisory about an active threat campaign which targets WhatsApp users by using a new technique called Ghost Pairing.

It is a type of WhatsApp attack where hackers secretly link their own device to a victim's WhatsApp account.

It gives hackers almost full access without the victim noticing.

'Ghost Pairing' allows cybercriminals to take complete control of WhatsApp accounts without requiring passwords or SIM swaps.

The threat actors can take over WhatsApp accounts without authorisation by tricking potential victims into entering the pairing codes.

3. Anjadip Ship:

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Recent - the 'Anjadip' Anti-Submarine Warfare Shallow Water Craft was delivered to the Indian Navy at Chennai.

It is the third of eight Anti-Submarine Warfare Shallow Water Craft.

It is indigenously designed and built by Garden Reach Shipbuilders and Engineers (GRSE), Kolkata.

The ship derives its name from Anjadip Island located off the coast of Karwar, Karnataka.

4. Mars Atmosphere and Volatile EvolutioN (MAVEN) Mission:

Recent - NASA has lost contact with its Mars Atmosphere and Volatile Evolution (MAVEN) spacecraft, the Mars orbiter that has worked for more than a decade to study how the planet's atmosphere is escaping into space.

It is the first spacecraft mission dedicated to surveying the upper atmosphere of Mars.

It is part of NASA's Mars Exploration Program, an unprecedented, multi-decade campaign to comprehensively understand Mars and its suitability to host past or present life.

It aims to understand the role that loss of atmospheric gas to space played in changing the Martian climate over time.

It was launched in November 2013 and arrived at Mars in September 2014.

5. Indian Council of Forestry Research and Education (ICFRE):

Recent - The Indian Council of Forestry Research and Education (ICFRE) will prepare a district-wise report on which hills meet the criteria to be considered part of the Aravalli Range, but strictly for the purposes of mining, the Union Environment Minister said recently.

It is the apex body in the national research system in the area of forestry.

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It is an autonomous organization under the Ministry of Environment, Forest, and Climate Change (MoEF & CC), Government of India.

Mission: To generate, advance, and disseminate scientific knowledge and technologies for ecological security, improved productivity, livelihood enhancement, and sustainable use of forest resources through forestry research and education.

Headquarters: Dehradun.

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DAILY DOSE

CURRENT AFFAIRS – 24/12/2025

1. AILA (Artificially Intelligent Lab Assistant):

Recent - IIT Delhi researchers recently developed an AI- Agent AILA- Artificially Intelligent Lab Assistant.

It is an AI agent which can independently run complex scientific experiments, analyse results, and make decisions in real time.

It was developed by IIT Delhi researchers in collaboration with scientists from Denmark and Germany.

Unlike earlier AI tools that mainly helped with writing or data analysis, AILA works directly with laboratory instruments.

2. Micrometeoroids and Orbital Debris:

Recent - a piece of debris struck the Chinese crewed vehicle Shenzhou-20, causing a minor crack in the window of its return capsule which raised the concerns regarding protections of astronauts from Micrometeoroids and Orbital Debris (MMOD) that orbit the earth.

Micrometeoroids are typically extremely small, with sizes ranging from a few micrometres (a millionth of a meter) to up to about two millimetres

Orbital Debris are also called space debris, space junk or space trash. They consist of human-made objects in the Earth's orbit which no longer serves any useful purpose.

3. SHAKTI Scholars Young Research Fellowship:

Recent - the National Commission for Women launched 'SHAKTI Scholars' young research fellowship on women-centric policy issues.

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It is a six-month program aimed at supporting emerging scholars in researching women's issues in India.

Duration: 6 months.

Research areas: Women's safety and dignity, gender-based violence, legal rights and access to justice, cyber safety, implementation of the Prevention of Sexual Harassment (POSH) framework ETC.

It is an initiative of the National Commission for Women.

4. Directed Energy Weapons:

Recent - the Apollo Micro Systems has secured Defence Research & Development Organisation approval to get access to Directed Energy Weapon (DEW) systems technologies from two DRDO entities.

It uses concentrated energy from electromagnetic or particle technology, rather than kinetic energy.

Directed Energy Weapon systems use high-powered lasers to inflict damage on targets.

DEW uses directed energy to heat up and destroy or damage the target.

5. India's Largest Circular Stone Labyrinth:

Recent - Archaeologists recently discovered a remarkable circular stone labyrinth in the Boramani grasslands of Solapur, Maharashtra, identified as the largest of its kind ever recorded in India.

It was discovered in the Boramani grasslands of Solapur, Maharashtra.

It is approximately 50 feet by 50 feet in size and has 15 concentric circles formed from small stone blocks.

The rings guide movement inward toward a tightly coiled spiral at the center, creating a design that reflects both precision and symbolic intent.

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DAILY DOSE

CURRENT AFFAIRS – 25/12/2025

1. Primary Sclerosing Cholangitis (PSC):

Recent - A new monoclonal antibody treatment has shown promising results for a rare liver disease called primary sclerosing cholangitis (PSC).

It is a rare, long-term disease of the liver caused by inflammation of tubes in the liver called bile ducts.

These ducts carry bile (a fluid that helps to digest fats) from the liver, where bile is produced, to the gallbladder, where it is stored, and to the small intestine, where it aids in digestion.

Scarring and narrowing of bile ducts leads to liver damage.

Over time, the liver loses its ability to filter blood and support digestion.

People with PSC are at higher risk of liver failure and cancers of the bile ducts, gallbladder, and colon.

2. Bezymianny Volcano:

Recent - The Bezymianny volcano that once blew itself apart in a massive explosion is now rising from the ashes—faster than scientists expected.

It is a cone-shaped stratovolcano on the Kamchatka Peninsula in the Russian Far East.

It is located on the southeast slope of the extinct volcano Kamen. These two volcanoes are separated by a high, narrow saddle.

3. Haka Dance:

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Recent - A Sikh Nagar Kirtan or religious procession in South Auckland, New Zealand, was protested in the form of a traditional tribal "haka" dance recently.

It is a traditional dance of the indigenous Māori people of New Zealand.

It is known for its powerful energy, fierce facial expressions (pukana), and physical movements like stamping, hand gestures, and chanting.

Haka varies by tribal region, with many haka telling the story of significant events in a tribe's history.

Traditionally, the haka was performed for war, to celebrate achievements, or to welcome guests.

Today, it is performed at important occasions like sporting events, weddings, and funerals.

4. K-4 Missile:

Recent - India tested an intermediate-range ballistic missile called K-4, which is designed to hit targets 3,500-km away, from the nuclear-powered submarine INS Arighaat in the Bay of Bengal recently.

Kalam-4 or K-4 Missile, is a nuclear-capable intermediate-range submarine-launched ballistic missile (SLBM) designed mainly for deployment on Arihant-class submarines.

Each Arihant-class submarine can carry four K-4 missiles.

K-4 was indigenously developed by the Defence Research and Development Organisation (DRDO).

5. Thanjavur Painting:

Recent - the Department of Posts successfully undertook the transmission of a priceless Thanjavur painting of the Shri Ram from Bengaluru to Ayodhya using its Logistics Post service.

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It is a classical South Indian art form originating in the town of Thanjavur (Tanjore), Tamil Nadu, around 1600 AD.

Tanjore or Thanjavur paintings are created on wooden panels, commonly known as palagai padam.

It flourished under the Nayakas of Thanjavur.

It has received the Geographical Indication tag.

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DAILY DOSE

CURRENT AFFAIRS – 26/12/2025

1. Titan:

Recent - Saturn's largest moon, Titan, may not have a subsurface ocean after all, according to a re-examination of data captured by NASA's Cassini spacecraft, which flew by Titan dozens of times starting in 2004.

Titan is Saturn's largest moon.

Dutch astronomer Christiaan Huygens discovered Titan on March 25, 1655.

It is the second largest moon in our solar system. Only Jupiter's moon Ganymede is larger, by just 2 percent.

It has a radius of about 2,575 kilometers, and is nearly 50 percent wider than Earth's moon.

It is the only moon in the solar system with a dense atmosphere.

It's the only world besides Earth that has standing bodies of liquid, including rivers, lakes, and seas, on its surface.

2. Rashtriya Prerna Sthal:

Recent - The Prime Minister recently inaugurated the Rashtra Prerna Sthal in Lucknow, Uttar Pradesh, dedicated to the life and ideals of former Prime Minister Atal Bihari Vajpayee, marking his 101st birth anniversary.

It has been developed as a landmark national memorial and inspirational complex of enduring national significance.

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It has been dedicated to the life and ideals of former Prime Minister Shri Atal Bihari Vajpayee.

It is located on the banks of the Gomti River in Lucknow, Uttar Pradesh.

3. Quality Council of India (QCI):

Recent - The Quality Council of India (QCI) recently announced a comprehensive set of next-generation quality reforms aimed at strengthening India's quality ecosystem across healthcare, laboratories, MSMEs, and manufacturing sectors.

It is a non-profit autonomous organisation registered under Societies Registration Act XXI of 1860.

It was set up in 1997 jointly by the Government of India and the Indian Industry, represented by the three premier industry associations, i.e., Associated Chambers of Commerce and Industry of India (ASSOCHAM), Confederation of Indian Industry (CII), Federation of Indian Chambers of Commerce and Industry (FICCI).

It is under the administrative control of the Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce and Industry.

4. Camellia sinensis:

Recent - the Food Safety and Standards Authority of India (FSSAI) issued a clarification that a beverage qualifies to be called tea only if it is derived from the plant Camellia sinensis.

It belongs to the family Theaceae, commonly known as the tea plant.

It is the source of various types of tea including green tea, black tea, and oolong tea.

It is a shrub or evergreen tree up to 16 m in height.

It is widely cultivated in mountain slopes, altitude up to 2200 m.

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5. Kimberly Process:

Recent - the Kimberley Process (KP) Plenary has selected India to assume the chairmanship of the Kimberley Process from 1 January 2026.

It is a tripartite initiative involving governments, the international diamond industry and civil society.

Aim: It is aimed at preventing the trade in “conflict diamonds”.

Conflict diamonds are rough diamonds used by rebel groups or their allies to finance conflicts that undermine legitimate governments, (As defined in United Nations Security Council resolutions).

Governance: Each year, the Vice-Chair becomes the Chair the next year. Chair and Vice-Chair are appointed by Plenary consensus.

Participants: It currently has 60 participants representing 86 countries, with the European Union counting as a single participant.

This will be the third time India has been entrusted with the chair of the Kimberley Process.

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DAILY DOSE

CURRENT AFFAIRS – 27/12/2025

1. Global Capability Centres (GCCs):

Recent - Global Capability Centres (GCCs) are now the primary engine sustaining India's technology job market, contrasting sharply with the hiring slowdown witnessed by large IT firms in the country.

Global Capability Centres (GCCs), or Captive Centres, are offshore offices or subsidiaries set up by multinational corporations (MNCs) to handle various business processes and services.

GCCs connect organizations to a global pool of top-tier talent, equipped with the latest technology and training needed to stay ahead of industry trends, continually innovate, and create sustained growth.

2. T Chamaeleontis:

Recent - astronomers used archival spectroscopic data from NASA's James Webb Space Telescope Mid Infrared Instrument (MIRI) to study polycyclic aromatic hydrocarbons (PAHs) in the spectrum of the young star T Chamaeleontis.

It is a young but sun-like star in the small southern constellation of Chamaeleon.

It is located about 350 light-years from Earth.

It can be found in the southern celestial hemisphere.

It is approximately 70 % of the size of the Sun and temperature on its surface is around 5111 K (4838 °C).

3. Santhali Language:

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Recent - President Droupadi Murmu recently released the Constitution of India in the Santhali language at a function held at the Rashtrapati Bhavan here.

The Santhali language, which was included in the Eighth Schedule of the Constitution through the 92nd Amendment Act, 2003, is one of the most ancient living languages of India.

It is spoken by a significant number of tribal people in Jharkhand, Odisha, West Bengal, and Bihar.

It is primarily used by the Santhal tribal community.

It is also spoken in Nepal and Bangladesh.

4. Veer Bal Diwas:

Recent - the Prime Minister addressed the Veer Bal Diwas programme in New Delhi.

It is observed on December 26 every year, starting in 2022.

It is commemorated in remembrance of the martyrdom of Guru Gobind Singh ji's (the tenth Sikh Guru) sons Sahibzada Zorawar Singh ji and Sahibzada Fateh Singh ji.

The objective is to honour the bravery of the two young heroes of the country.

5. Lantana camara:

Recent - A silent invasion of Lantana camara is underway in large parts of the world and global warming has made things easier for Lantana, helping it spread faster.

It is an annual or perennial, small, broadleaf evergreen shrub in the verbena family.

It is an invasive alien plant species.

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Origin: It is native to the tropical and sub-tropical regions of Central and South America.

It is an exotic weed that aggressively proliferates and forms a dense mesh of bushes.

In India, it was first introduced in the early 18th century as an ornamental plant by the British and since then, it has invaded almost all the tropical areas across the country.

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DAILY DOSE

CURRENT AFFAIRS – 29/12/2025

1. Kolleru Lake:

Recent - Kolleru Lake, which is known for its rich biodiversity, is now getting recognition for its delicious black dried fish that has carved a special place for itself in both domestic and international markets.

It is located in the inter-deltaic plain of rivers Krishna and Godavari near the city of Eluru and serves as a natural flood-balancing reservoir for these two rivers.

It is the largest freshwater lake in Andhra Pradesh. Characteristically, it is a shallow lake.

It receives water from four rivers, namely Budameru, Ramileru, Tammileru, and Errakalva, and 18 drains.

This lake empties its water into the Bay of Bengal through an outlet called 'upputera'.

This lake is also known as the "Peerless Fisherman's Paradise and Bird Heaven".

2. Passenger Assistance Control Room (PACR):

Recent - To address air travellers' grievances more promptly, the civil aviation ministry recently set up the Passenger Assistance Control Room (PACR) that functions round-the-clock to resolve the issues.

It was launched by the Ministry of Civil Aviation, Government of India.

It is aimed at significantly improving the promptness and effectiveness of addressing air traveller grievances.

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3. Scheme for Promotion of International Cooperation for AYUSH:

Recent - the Minister of State (IC) for Ayush informed about the Central Sector Scheme for Promotion of International Cooperation for AYUSH (Ayurveda, Yoga, Naturopathy, Unani, Siddha, and Homeopathy).

It is a Central Sector Scheme.

It provides support to Indian Ayush drug Manufacturers/ Ayush Service providers to give boost to the export of Ayush products & services.

Nodal Ministry: Ministry of AYUSH.

4. Industrial Hemp:

Recent - Himachal Pradesh Chief Minister has launched a policy push to legalise and regulate the cultivation of industrial hemp.

Industrial hemp (*Cannabis sativa L.*) is botanically related to marijuana, but with very different properties.

While marijuana is rich with tetrahydrocannabinol (THC), the psychoactive component that makes pot a drug of choice by many, hemp contains only the smallest traces of THC (<0.3%),

It is an herbaceous, dioecious plant belonging to the *Cannabis* genus within the Cannabaceae family.

It is high in fiber and low in active tetrahydrocannabinol (THC).

5. Frequency Comb:

Recent - Frequency combs are an important modern tool which are used to calibrate atomic clocks and have various other applications.

It is a special kind of laser light whose spectrum, or set of frequencies, resembles the teeth of a comb.

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Frequency combs are simple and compact tools that phase coherently connect the radio frequency domain (say below 100GHz) with the optical domain (say above 200THz).

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DAILY DOSE

CURRENT AFFAIRS – 30/12/2025

1. Gandikota Canyon:

Recent - Gandikota canyon in Kadapa district, Andhra Pradesh, is gaining tourist attention as a major geological and heritage site, often called the Grand Canyon of India.

It lies within the Erramala Hills on the banks of the Penna River.

Deep gorge carved over aeons through red sandstone and granite formations.

Lies in the Rayalaseema plateau region, part of the Deccan peninsular system.

2. Narasapuram Crochet Lace Industry:

Recent - PM Modi praised Narasapuram's traditional crochet lace industry as a strong “vocal for local” example.

Narsapur is located on the banks of the Vasishta Godavari River (tributary of the Godavari) in West Godavari district, Andhra Pradesh.

It is a cottage industry that produces three categories of crochet products — garments, home furnishings, and accessories.

Nearly 15,000 artisans are engaged, with women comprising 60% to 71%.

It exceeded ₹150 crore export in FY 2025; key international markets include the USA, UK, France, and the Middle East.

3. Maglev Technology:

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Recent - China successfully tested the world's fastest superconducting magnetic levitation (maglev) technology by accelerating a tonne-class vehicle to 700 km/h in just two seconds.

Maglev technology uses magnetic forces to lift, propel, and guide vehicles (primarily trains) above a track, eliminating the need for wheels and minimising friction.

The tracks, known as guideways, contain powerful electromagnets, and the vehicles use superconducting magnets or electromagnets for motion control.

4. Pinaka Long Range Guided Rocket:

Recent - The Defence Research and Development Organisation (DRDO) conducted the maiden flight test of the Pinaka Long Range Guided Rocket (LRGR 120).

It is an advanced guided variant of India's indigenous Pinaka Multi-Rocket Launch System (MRLS) designed for precision strikes with an upgraded range of 120 km.

The Pinaka MRLS has been exported to Armenia, with France, Saudi Arabia, Vietnam and Indonesia having expressed interest in procurement.

5. INSV Kaundinya:

Recent - The Prime Minister has lauded INSV Kaundinya as it embarks on its maiden voyage from Porbandar to Muscat, symbolically retracing India's ancient maritime routes.

INSV Kaundinya is an Indian Naval Sailing Vessel recreated on the basis of a 5th-century CE ship depicted in the Ajanta Cave paintings, representing India's ancient ocean-going traditions.

Built by Indian Navy, in collaboration with the Ministry of Culture.

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Built using the ancient Indian stitched-ship technique, the vessel showcases India's rich seafaring heritage.

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DAILY DOSE

CURRENT AFFAIRS – 31/12/2025

1. Piprahwa Relics:

Recent - The Union Ministry of Culture is organising the “Lotus Light: Relics of the Awakened One” cultural exposition showcasing the Piprahwa Relics in New Delhi.

The Piprahwa Relics were discovered in 1898 at Piprahwa Stupa (Uttar Pradesh) by British engineer William C. Peppe; the site is widely identified with ancient Kapilavastu, Buddha's homeland.

The relics include bone fragments, crystal and steatite caskets, gold ornaments and gemstones; a Brahmi inscription attributes them to Buddha's Sakya clan, dating them to the 3rd century BCE.

2. Fourth largest economy:

Recent - India has become the world's 4th largest economy, surpassing Japan in nominal GDP.

India's nominal GDP is \$4.18 trillion, placing it behind the U.S, China, and Germany.

It remains the fastest-growing major economy, with 8.2% real GDP growth in Q2 of FY2025.

3. Nimesulide Ban:

Recent - India has banned oral immediate-release nimesulide formulations above 100 mg to protect public health, citing serious safety risks.

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Nimesulide is a non-steroidal anti-inflammatory drug (NSAID) used for pain and fever in adults. It has been widely sold under multiple brand names and fixed-dose combinations in India for decades.

4. 3D Flex Aqueous Angiography:

Recent - An Army Hospital in New Delhi has successfully performed India's first 3D flex aqueous angiography with iStent, marking a major advancement in glaucoma treatment.

3D flex aqueous angiography allows doctors to see the eye's fluid drainage channels in real time, helping identify exactly where fluid outflow is blocked in glaucoma patients.

The technique was performed using a 3D operating microscope and Spectralis imaging system, enabling high-precision live imaging during the eye surgery.

It was combined with iStent, a tiny implant used in Minimally Invasive Glaucoma Surgery (MIGS), which helps improve fluid drainage and lower eye pressure safely.

5. Justice Mission 2025:

Recent - China conducted large-scale live-fire military drills named "Justice Mission 2025" around Taiwan, including missile launches, fighter jet sorties, and naval deployments.

Justice Mission 2025 is a high-intensity, two-day PLA (People's Liberation Army) military exercise involving live-fire missile launches, air and naval manoeuvres.

It is designed to simulate blockade operations and precision strikes against Taiwan's ports and maritime targets.

Conducted around Taiwan, including waters to the north and south of the island.

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