UPSC Daily Current Affairs| One Liners 17-04-2026

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History, Art and Culture

Femina Miss India for "Vishwa Sutra,"

Recently Ministry of Textiles has partnered with Femina Miss India for "Vishwa Sutra," a landmark initiative showcasing Indian handlooms during the pageant's grand finale.

• **Regional Artistry -** State winners showcase regional weaves like Kanchipuram, Banarasi, and Pashmina.

• **Economic Impact -** Supporting over 35 lakh workers, the project promotes the "Orange Economy" by transforming traditional craftsmanship into a globally competitive, creative sector.

• **Strategic Vision -** The initiative aligns with the "5F" framework—Farm to Fibre to Factory to Fashion to Foreign—elevating "Vocal for Local" to a global scale.

• **Nature of Textiles** - Eco-friendly textiles.

• **Cultural Legacy -** Vishwa Sutra bridges the gap between local looms and global runways, celebrating India's profound textile diversity.

Facts

"Vishwa Sutra" is a Ministry of Textiles initiative showcasing India's diverse handlooms through Femina Miss India, bridging traditional weaving with global fashion to promote sustainable heritage and the "5F" framework.

Economy

Indias first chip fabrication plant

Indian government has officially notified the country's first chip fabrication plant, to be established by Tata Semiconductor Manufacturing Private Limited within a dedicated SEZ in Dholera, Gujarat.

• **Scale -** Spanning 66.166 hectares, this high-tech hub is designed for electronic hardware and IT services.

• **Employment** - It is projected to create 21,000 jobs while streamlining logistics through specialized infrastructure.

• To attract capital-intensive investments, the government amended the **SEZ Rules in 2025**.

• **Key changes** - Include reducing minimum land requirements to 10 hectares and offering greater financial flexibility for semiconductor manufacturers.

• **Strategic Industry Players -** Beyond Tata, the Board of Approval has cleared major projects like Micron's Rs 13,000 crore packaging facility in Sanand and Aequs Group's electronics hub in Karnataka.

• **Aim to** - Minimize import dependency, foster domestic value chains, and build a globally competitive, resilient semiconductor ecosystem through integrated manufacturing clusters.

• **Future Outlook -** These developments position India as an emerging global powerhouse for semiconductor and electronic production.

Environment

Komorebi

It is a unique Japanese term describing the visual effect of dappled sunlight filtering through the leaves and branches of trees.

• **Etymological Breakdown -** The word is derived from three Japanese components: **Ko** (tree), **More** (to leak or filter), and **Bi** (light), literally meaning "light leaking through trees."

• **Cultural Significance -** It reflects the deep-rooted connection between the Japanese language and nature, where vocabulary encodes specific environmental perceptions and philosophical observations.

• **Untranslatable Nature -** The term lacks a direct English equivalent, making it a "culturally rich untranslatable" word that captures both a physical phenomenon and a specific emotional mood.

• **Symbolism of Mindfulness -** Beyond the visual, it symbolizes **serenity, slow living, and emotional healing**, encouraging a pause from modern life to reconnect with natural beauty.

• **Contemporary Relevance -** In the digital age, **Komorebi** has become a global symbol for mindfulness, highlighting the importance of environmental consciousness and reflective, peaceful observation.

Cyrtodactylus Raimonaensis

Scientists identified a new gecko species, **Cyrtodactylus raimonaensis**, in a forest fragment near Assam's **Raimona National Park**, highlighting the region's rich biodiversity.

• **Park Profile -** Notified in 2021 as Assam's sixth national park.

• **Located** - In **Kokrajhar district** within the Bodoland Territorial Region (BTR), Assam.

• **Transboundary Landscape -** It forms a massive conservation belt with Bhutan's **Phibsoo Wildlife Sanctuary** and West Bengal's **Buxa Tiger Reserve**, spanning over 2,400 km².

• **Strategic Hydrology -** The park is geographically bounded by the **Sankosh River** to the west and the **Saralbhanga River** to the east, supporting moist deciduous ecosystems.

• **Critical Habitats -** Endangered **Golden Langur** and serves as a vital migratory corridor for **Asian elephants** between India and Bhutan.

• **Ecological Significance -** Positioned at the Himalayan foothills, the park transitions from the **Ripu Reserved Forest** into a protected gateway for the Eastern Himalayan biodiversity hotspot.

Quick Facts

• The **Cyrtodactylus raimonaensis** is a new "bent-toed" gecko found near Assam's **Raimona National Park**.

• Named after the park, this small lizard features unique **curved toes** designed for gripping mossy trees and rocks. Its discovery highlights the rich, hidden biodiversity within India's tropical evergreen forests.

Security

INS Sudarshini reached Casablanca

Recently on April 2026 INS Sudarshini reached Casablanca, Morocco under Lokayan 26.

• **Strategic Context** - The visit aligns with MAHASAGAR **(Mutual and Holistic Advancement for Security and Growth Across the Region).**, promoting maritime security, cooperation, and regional growth.

• **Key Interactions -** Talks were held with Moroccan Navy officials on training exchanges and collaboration.

• **INS Sudarshini** - Commissioned in 2012, is a three-masted sail training ship of the Indian Navy.

• Built by Goa Shipyard, this barque-class vessel is designed to develop essential seamanship skills and character in officers.

• Beyond training, she serves as a prestigious goodwill ambassador, strengthening maritime ties through extensive international voyages.

• **Casablanca** - Is Morocco's largest city and its primary economic hub.

• **Located on** - The Atlantic coast, it features the **Hassan II Mosque**, which boasts one of the world's tallest minarets. Architecturally, the city blends French colonial design with traditional Moorish styles.

Central Armed Police Forces (CAPFs) Security Summit

PM Mode will chair India's first-ever high-level conference dedicated exclusively to the CAPFs.

• **Specialized Strategic Focus -** Unlike broader policing meets, this summit centralizes CAPF-specific issues to provide a unified strategic direction for internal security.

• **Institutional Coordination -** Initiative shifts internal security toward a structured, institutionalized framework, fostering synergy between CAPFs, the Intelligence Bureau, and state police.

• **Evolving Threat Matrix -** Discussions will prioritize complex challenges, including Left-Wing Extremism (LWE), cross-border insurgency, and emerging cyber-enabled security risks.

• **Strategic Operational Synergy -** The agenda emphasizes seamless intelligence sharing and joint operational planning to ensure faster, more effective responses to national threats.

Key Exam Facts

CAPFs (BSF, CRPF, CISF, ITBP, SSB) operate under the Ministry of Home Affairs.
Intelligence Bureau facilitates this inter-agency coordination.

Exercise DUSTLIK

It is a premier annual bilateral training event conducted between the **Indian Armed Forces** and the **Uzbekistan Armed Forces**.

• **Venue -** The 7th edition occurs at the **Gurumsaray Field Training Area**, Uzbekistan; the exercise alternates annually between both host nations.

• **Objectives -** The mission focuses on enhancing combined capabilities for **joint operations** in semi-mountainous terrain, emphasizing physical fitness and synchronized tactical planning.

• **Operational Features -** Training includes strike missions, land navigation, and a **48-hour validation exercise** designed to neutralize unlawful armed groups through joint special operations.

• **Inter-Service Synergy -** It notably integrates both **Army and Air Force** components, fostering a unified command-and-control algorithm and seamless inter-service coordination.

• **Regional Significance -** As part of India's **"Extended Neighbourhood"** policy, DUSTLIK strengthens strategic outreach and military cooperation with Uzbekistan, a key Central Asian partner.

Science

MEMRISTOR

Memristor is a tiny electronic part that combines a "memory" and a "resistor." It controls electricity and remembers how much flowed through it, even after the power is turned off.

• **Cambridge Scientists** – Have improved this by using a "p-n junction" made of hafnium. This makes the device much more predictable and stable than older versions that used unpredictable tiny wires.

• **Like a Human Brain -** This technology mimics how our brain cells (synapses) work. It can process and store information in the same spot, which is exactly how our minds handle data.

• **Massive Power Savings -** These devices use a million times less current than older versions. This breakthrough cuts energy use by 70%, making gadgets much more efficient.

• **Easy to Manufacture -** Since they are made with hafnium oxide—a material already used in standard phone and computer chips—factories can easily start making them without changing their machines.

• **Better AI -** This will allow small devices, like phones, to run powerful AI locally.

• **Gadgets** - It also paves the way for "brain-on-a-chip" systems and faster, permanent memory.

Astrobiology

Scientists have recently simulated Martian conditions in a lab, discovering that certain microorganisms can survive environments previously deemed entirely uninhabitable.

• **Simulating Hostile Conditions -** The study replicated extreme Martian shockwaves from meteorite impacts and toxic perchlorate salts, yet simple yeast cells managed to endure.

• **Cellular Resilience Mechanisms -** Survival is driven by protective molecular structures that shield critical functions, similar to adaptations seen in radiation-resistant and oxygen-deprived bacteria.

• **Redefining Habitability -** The findings expand the "habitable zone" concept, suggesting microbial life could potentially exist or persist in much harsher planetary environments.

• **Essential Exam Facts -** Key terms include **Extremophiles** (organisms thriving in extremes), **Perchlorates** (toxic Martian salts), and **Astrobiology** (the study of life beyond Earth).

India's Space Age

On 17th April, 1983 India solidified its status as a spacefaring nation, marking a historic leap in indigenous technological capability and satellite deployment.

• **Satellite Launch Vehicle-3 (SLV-3)** - Was India's first experimental multipurpose launch vehicle, successfully placing satellites into Near-Earth Orbit.

• **Development -** By **Dr. A.P.J. Abdul Kalam**.

• **Future Technology**- SLV-3 project proved India's ability to develop sophisticated solid-propellant rocket stages.

• **Rohini Satellite Series -** The 1983 mission successfully launched the **RS-D2** satellite, which carried a Smart Sensor Camera to test remote sensing capabilities.

• **Global Standing -** With this achievement, India became the 6th member of an exclusive club of nations capable of launching their own satellites independently.

• **Foundation for ISRO -** The success of SLV-3 provided the critical design architecture for future giants like the **ASLV**, **PSLV**, and the heavy-lift **GSLV** rockets.