

Daily Current Affairs

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India Tests Systems Against Mythos Cyber Threat

- India is testing financial and government digital systems, including the Aadhaar national identity system and government login platforms, against vulnerabilities linked to Anthropic's next-generation AI model, Mythos.
- The tests involve Indian technology firms, the national cybersecurity agency CERT-In, and critical digital infrastructure used by public institutions and banks.
- Infosys and Tata Consultancy Services are participating in the tests in secure environments. They are using Anthropic's Claude Opus 4.7 model because they do not yet have direct access to Mythos.
- CERT-In is conducting tests on critical digital infrastructure, and the Reserve Bank of India held meetings with domestic banks in May 2026 on possible risks linked to Mythos.
- CERT-In is India's national cybersecurity agency under the Ministry of Electronics and Information Technology.
- Aadhaar is India's 12-digit unique identity system managed by the Unique Identification Authority of India.
- NIST stands for the National Institute of Standards and Technology, a United States federal agency.
- Zero-day vulnerabilities are a major category of cyber risk in operating systems, browsers, and enterprise software.



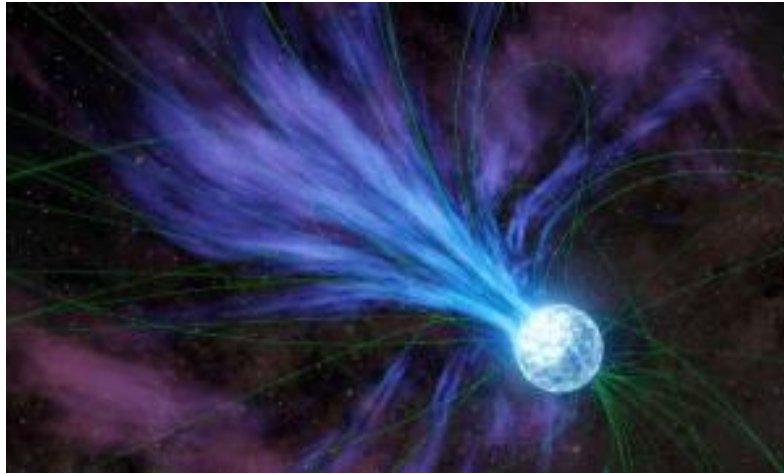
India Records 191 Cockroach Species

- India has 191 recorded species of cockroaches, and more than 60% of them are endemic to the country. A Zoological Survey of India study published in the taxonomy journal Zootaxa also documented India's first and largest DNA barcode reference library for cockroaches.
- India's cockroach fauna now includes 191 species, and the study added several undocumented and endemic lineages. The research generated more than 100 high-quality DNA barcodes for species identification and classification.
- DNA barcoding uses a short genetic sequence, usually from the mitochondrial cytochrome c oxidase I gene, to identify species. In taxonomy, DNA barcodes help distinguish closely related species and resolve classification disputes in groups with similar external features.
- Some endemic cockroach lineages in India may have Gondwanan biogeographic origins. Gondwana was an ancient supercontinent that included present-day India, Africa, South America, Antarctica, Australia, and Madagascar.
- Cockroaches belong to the order Blattodea, which also includes termites in modern classification systems.
- India's first and largest cockroach DNA barcode reference library was unveiled in 2026.
- *Neoloboptera peninsularis* was identified from the Deccan Peninsula in March 2026.
- Cockroaches act as decomposers, nutrient recyclers, and bioindicators in ecosystems.



Scientists Detect 10-Billion-Year-Old Radio Signal

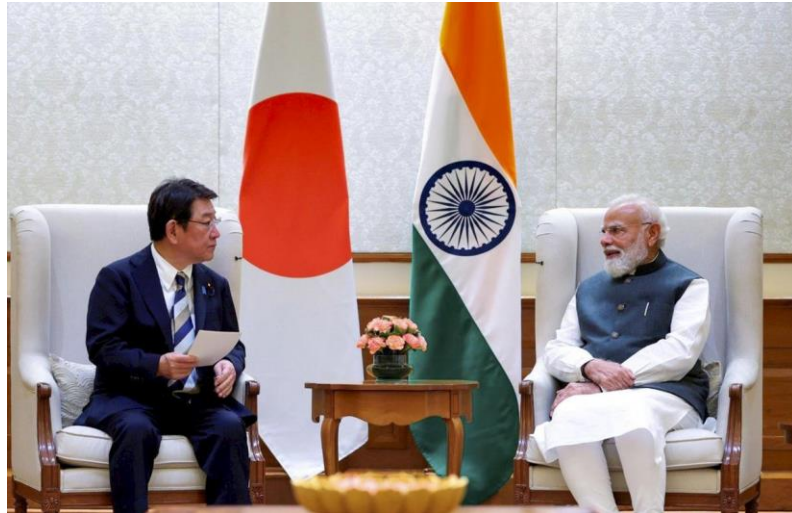
- Scientists have detected a fast radio burst named FRB 20240304B that travelled about 10 billion years before reaching Earth. The signal was first detected on 4 March 2024 by the MeerKAT radio telescope in South Africa.
- Researchers used the James Webb Space Telescope to identify its host galaxy as a small, clumpy, low-mass, star-forming dwarf galaxy.
- Fast radio bursts are brief and intense pulses of radio waves from distant astronomical sources. FRBs are measured by their dispersion measure, redshift, and localisation to a host galaxy. Localised FRBs help astronomers study the intergalactic medium, galaxy evolution, and compact objects such as magnetars.
- FRB 20240304B originated when the universe was about 3 billion years old, during a period called Cosmic Noon. Cosmic noon refers to the epoch of peak star formation in the universe, which occurred roughly 2 to 3 billion years after the Big Bang. The discovery doubled the redshift reach of localised fast radio bursts.
- FRB 20240304B is a fast radio burst and not a continuous radio source.
- The James Webb Space Telescope was launched in 2021 and operates in infrared wavelengths.
- LOFAR is used for low-frequency observations across Europe.
- Magnetars are highly magnetised neutron stars and are one proposed source of some fast radio bursts.
- In June 2025, astronomers detected a radio mini-halo around the galaxy cluster SpARCS1049 with LOFAR. The mini-halo spans more than one million light-years and lies about 10 billion light-years away. Galaxy clusters are the largest gravitationally bound structures in the universe.



PM Modi Holds Talks on Indo-Pacific Cooperation

- Prime Minister Narendra Modi held separate meetings with Australian Foreign Minister Penny Wong and Japanese Foreign Minister Toshimitsu Motegi in New Delhi on 26 May 2026. The discussions covered Indo-Pacific cooperation, maritime security, supply chain resilience, and economic connectivity.
- The Indo-Pacific is a geopolitical and maritime region that links the Indian Ocean and the Pacific Ocean. India uses the term in its foreign policy for cooperation on security, trade, connectivity, and freedom of navigation.
- The India-Australia Comprehensive Strategic Partnership was established in 2020. It covers defence cooperation, trade, technology, education, and critical supply chains. India and Australia are members of the Quad grouping along with Japan and the United States.
- The India-Japan Special Strategic and Global Partnership was launched in 2014. It includes cooperation in infrastructure, defence, digital technology, and economic security. Japan remains a major partner in India's connectivity and industrial projects.
- The Quad was first formed in 2007 and revived in 2017 for regular diplomatic engagement.
- Maritime security in the Indo-Pacific includes sea lane safety, port access, and anti-piracy cooperation.
- Critical minerals are used in batteries, electronics, and renewable energy technologies.

- Japan has sought diversification of critical mineral supplies through partnerships with other Indo-Pacific countries.



Khajuraho to Host Yoga Mahotsav 2026

- 12th International Day of Yoga 2026 is set to host at the iconic Khajuraho temples in the state of Madhya Pradesh and with this it starts the 25-Day Countdown Event. It is organized by the Morarji Desai National Institute of Yoga under the Ministry of Ayush, and it connects the India's rich cultural heritage with its global wellness mission.
- Yoga Mahotsav is the major outreach initiative which is organized annually as part of preparations for the International Day of Yoga.
- The event marks the important 25 day countdown phase before the annual day celebration on the 21st of June.
- Its purpose is to,
 - Build public awareness about yoga
 - Encourage community participation
 - Promote holistic wellness
 - Expand yoga outreach nationally and globally
- The Western Group of the Temples in Khajuraho provides symbolic and culturally powerful setting for this event.
- Khajuraho is globally renowned for the,

- UNESCO World Heritage recognition
- Historic temple architecture
- Rich artistic heritage
- Spiritual and cultural significance



Karnataka Grameena Bank Wins PFRDA Award

- The Karnataka Grameena Bank has been awarded by the **Pension Fund Regulatory and Development Authority (PFRDA)** for its outstanding performance under the Atal Pension Yojana. The bank has exceeded its enrolment target by a wide margin and emerged top performing bank in Karnataka.
- Karnataka Grameena Bank was recognized for its remarkable enrolment performance under the Atal Pension Yojana.
- The bank achieved the,
 - 2,49,185 APY account enrolments
 - Against the target of 1,75,500 accounts
 - Achievement rate of 142%
- The honor was presented to Mr. Shreekant M. Bhandiwad, who is the Chairman of Karnataka Grameena Bank.
- The award was conferred by the,

- M. Nagaraju – Secretary, Department of Financial Services (DFS), Government of India
- S. Ramann – Chairperson, PFRDA
- Atal Pension Yojana (APY) is the union government-backed pension scheme which aims to primarily at workers in the unorganized sector.
- It provides the subscribers with a guaranteed monthly pension after the age of 60.
- The scheme was launched to strengthen the social security coverage among economically vulnerable citizens.



REVIEW QUESTIONS

1. Which Indian agency is leading cybersecurity tests against threats linked to the AI model “Mythos”?

- A. ISRO
- B. DRDO
- C. CERT-In
- D. NITI Aayog

Answer: C. CERT-In

2. Aadhaar is managed by which organization?

- A. RBI
- B. UIDAI
- C. TRAI
- D. SEBI

Answer: B. UIDAI

3. India's first and largest DNA barcode reference library for cockroaches was unveiled by which organization?

- A. CSIR
- B. ISRO
- C. Zoological Survey of India
- D. ICAR

Answer: C. Zoological Survey of India

4. Cockroaches belong to which biological order?

- A. Lepidoptera
- B. Blattodea
- C. Diptera
- D. Coleoptera

Answer: B. Blattodea

5. FRB 20240304B was first detected by which telescope?

- A. Hubble Space Telescope
- B. LOFAR
- C. MeerKAT Radio Telescope
- D. FAST Telescope

Answer: C. MeerKAT Radio Telescope

6. The term "cosmic noon" refers to which phase of the universe?

- A. Formation of black holes
- B. Peak star formation period

- C. Expansion slowdown period
- D. Beginning of galaxies

Answer: B. Peak star formation period

7. India, Australia, Japan, and the United States are members of which grouping?

- A. ASEAN
- B. BRICS
- C. G20
- D. Quad

Answer: D. Quad

8. The Yoga Mahotsav 2026 countdown event will be hosted at which place?

- A. Konark Temple
- B. Ajanta Caves
- C. Khajuraho Temples
- D. Hampi

Answer: C. Khajuraho Temples

9. Atal Pension Yojana mainly targets which sector?

- A. Organized corporate sector
- B. Government employees
- C. Unorganized sector workers
- D. Export industries

Answer: C. Unorganized sector workers

10. Karnataka Grameena Bank achieved what percentage of its APY enrolment target?

- A. 120%
- B. 132%
- C. 142%
- D. 152%

Answer: C. 142%

