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07 November 2023 – Daily Current Affairs

<p><b>Leave benefits for women in armed forces</b></p> 	<p><b>Context</b> Defence Minister has approved a proposal to <b>grant maternity, childcare and child adoption leave to women soldiers, sailors, and air warriors</b> on a par with the officers.</p> <p><b>Key points</b></p> <ul style="list-style-type: none"> <li>• The move was in line with the vision of “<b>inclusive participation</b>” of all women in the armed forces, irrespective of their ranks.</li> <li>• At present, women officers get maternity leave of <b>180 days</b> with full pay for each child, subject to a maximum of two children.</li> <li>• Childcare leave of <b>360 days</b> is granted in total service career (subject to the child being less than 18 years of age) to women officers.</li> <li>• Child adoption leave of <b>180 days</b> is granted after the date of the valid adoption of a child below one year of age.</li> </ul>
<p><b>Air pollution in states</b></p>	<p><b>Context</b> Delhi and parts of the surrounding States of Punjab, Haryana and Uttar Pradesh encounter their annual air quality inflection point.</p> <p><b>Reasons for pollution of North India in winters</b></p> <ul style="list-style-type: none"> <li>• Stubble Burning</li> <li>• Geographical location</li> <li>• Temperature inversion</li> <li>• Firecrackers due to festive season</li> <li>• Vehicular Pollution</li> <li>• Construction</li> </ul> <p><b>About CAQM</b></p> <ul style="list-style-type: none"> <li>• CAQM stands for <b>Commission for Air Quality Management</b>.</li> <li>• CAQM is a <b>statutory mechanism to coordinate and oversee diverse efforts to improve air quality</b> in Delhi, Punjab, Haryana, Rajasthan and UP, with the underlying remedial approach.</li> </ul>
<p><b>Russia test-fires nuclear-capable ballistic missile from submarine</b></p>	<p><b>Context</b></p> <ul style="list-style-type: none"> <li>• Russia had successfully test-launched an intercontinental ballistic missile capable of carrying nuclear warheads from one of its submarines.</li> <li>• The launch of the “<b>Bulava</b>” missile comes as</li> </ul>



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Russia ramps up nuclear rhetoric since revoking its ratification of a key nuclear test ban treaty

### About Nuclear Test Ban Treaty

- The Comprehensive Test Ban Treaty prohibits “**any nuclear weapon test explosion or any other nuclear explosion**” anywhere in the world.
- The treaty was opened for signature in September 1996, and has been signed by 187 nations and ratified by 178.
- The treaty cannot formally enter into force until it is ratified by 44 specific nations, eight of which have yet to do so: **India, China, Pakistan, North Korea, Israel, Iran, Egypt, and the United States.**
- In order to verify compliance with its provisions, the treaty establishes a global network of monitoring facilities and allows for on-site inspections of suspicious events.
- Since the conclusion and opening for signature of the CTBT, nuclear testing has become taboo.
- Today, even those nuclear-armed states that have not signed or not ratified the CTBT, including **India, Israel, and Pakistan**, observe nuclear testing moratoriums.
- Only one country has conducted nuclear test explosions in this century, and even that country—**North Korea**—halted nuclear testing in 2017.
- Although the CTBT has not formally entered into force, the treaty has, for now, achieved its primary goal: ending nuclear weapon test explosions.

### Enemy property’ Butler Palace to turn into a tourist haven

#### Context

Lucknow’s once-grand three-storey Butler Palace, left deserted and in darkness for many decades, will see a facelift.

#### Key points

- Built a century ago, the palace is a mix of **Rajasthani and Indo-Mughal styles**
- The palace, originally built as the official residence of the Commissioner of Avadh, **Harcourt Butler**, in 1915, was owned by the royal family of Mahmudabad.
- By its own account, the family migrated to India in the 13th century and settled in erstwhile Avadh,



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current Lucknow, in the 16th century, and owed allegiance to the Mughals.

- **Mohammed Amir Ahmad Khan**, the king at the time of Independence, migrated to Pakistan, while his son Mohammad Amir Mohammad Khan, stayed on in India as a citizen, fighting a legal battle over several properties, including Butler Palace.
- After the **India-Pakistan war in 1965**, Butler Palace was declared “**enemy property**” by the Government of India
- After being declared enemy property in the 1960s, the premises were handed over to the Uttar Pradesh government, who used it as a sales tax office.
- In the 1980s, it was given to the **Indian Council of Philosophical Research**, an organisation under the Union Human Resource Development Ministry.

**Traffic Collision Avoidance Systems (TCAS)- Kavach**

**Context**

The deadly collision between two passenger trains in southern India’s Vizianagaram district in Andhra Pradesh which killed 14 people and injured fifty persons could have been averted if **Traffic Collision Avoidance Systems (TCAS)** were in place.

**About TCAS - Kavach**

- Kavach is a **cab signalling train control system** with anti-collision features.
- Simply put, it plays the role of a watchdog over the existing signalling system.
- It was developed over a period of 10 years, starting in 2012, by the **Indian Railways Research Designs and Standards Organisation (RDSO)**.
- Kavach is designed to give out warnings to the loco pilot in case he does not notice the ‘red signal,’ and instead of stopping, is going to overshoot the signal.
- After giving warnings on the locopilot’s display, if the pilot does not slow down below 15 kilometres per hour, the Kavach system automatically applies brakes to bring the train to a halt.

**Athikadavu Avinashi Project**

**Context:**

- Farmers expressed disappointment over the delay in commissioning the **Athikadavu Avinashi Project (AAP)**.

**About Athikadavu Avinashi Project:**

- The **Athikadavu Avinashi Project** is a water



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resources project in the Indian state of Tamil Nadu.

- The project aims to **divert surplus water from the Bhavani River to the drought-prone regions of Coimbatore, Tiruppur, and Erode districts.**
- The project will also help to recharge groundwater and improve the water supply for drinking and irrigation purposes.
- The project consists of a pumping station at Athikadavu, a 1,065 km pipeline network, and 1,300 valves.
- The Athikadavu Avinashi Project (AAP) was proposed in the **1960s and initiated in 2019**

### BirdMan Walk program



### Context:

- The annual **BirdMan Walk Program** is held in the month of November,
- It marks the birth month of **Salim Ali**, the bird man in Tenkasi district.
- Eco-cultural search program is being conducted every month by Manimutthar Agathiyamalai Society's Environment Conservation Center.

### About Birdman Walk Program:

- The Birdman Walk Programme is a **unique initiative of the Tamil Nadu Forest Department**
- It aims to **promote birdwatching and raise awareness about conservation.**
- The program was **launched in 2016** and has been highly successful in attracting birdwatchers from all over India and the world.
- The walks are typically held in the early morning hours, when the birds are most active.

### Stones laid for building stadia in nine constituencies by MK Stalin

### In News: Stones laid for building stadia in nine constituencies by MK Stalin

- TN CM laid the foundation stones for the **construction of mini stadia in nine assembly constituencies** via video conference.

### Key Points:

- The initiative will provide mini stadia to the assembly constituencies of Kolathur, Chepauk-Thiruvallikeni, Vaniyambadi, Gangeyam, Chozhavandhan, Thiruvaigundam, Alangudi, Karaikudi, and Padmanabapuram.





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## 50 Odonata species identified in Mudumalai Tiger Reserve



### In News:

- Around **50 Odonata (the insect order comprising dragonflies)** species were identified on the first day of the two-day Odonata survey that commenced in **Mudumalai Tiger Reserve (MTR)**

### Key Points:

- It is the first time an **Odonota survey** has been conducted in MTR.
- Along with the forest department field-level staff, members of the Society for Odonata and volunteers of ACT NGO have been participating in the survey,
- The survey will reveal the population of dragonflies and damselflies along with other Odonata species in the coming days.
- A **team of five members**, consisting of students from **Ooty Arts and Science College and Mettupalayam Research Institute with an Odonata expert**, are involved in the counting of 37 forests.

## Odonata Species



### Odonata species:

- Odonata is an **order of flying insects** that includes the dragonflies and damselflies.
- There are over 5,000 species of Odonata in the world, and they are found on every continent **except Antarctica**.
- Odonata are characterized by their **long, slender bodies, two pairs of transparent wings, and large compound eyes**.
- They are also excellent fliers, and some species can reach speeds of up to 30 miles per hour.
- **Odonata are carnivores**, and they feed on a variety of insects, including mosquitoes, flies, and butterflies.
- They play an important role in the environment by **helping to control populations of insect pests**.



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