

UPSC Daily Current Affairs| One Liners 10-09-2025

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History, Art and Culture

Lankhong Puja

- It is a *socio-religious festival* event of *Tiwa community of Assam*.
- **Celebrated for** - A good crop in the upcoming Rabi crop season.

Agriculture

Regulation of Biostimulant Products

- **Bio-stimulant** - A substance or micro-organism or a combination of both whose primary function when applied to plants, seeds or rhizosphere is *to stimulate physiological processes in plants*.
- **Aim** - To enhance its nutrient uptake, growth, yield, nutrition efficiency, crop quality and tolerance to stress, regardless of its nutrient content.
- **Regulated under** - Fertilizer Control Order (FCO), 1985.

Security

Exercise Zapad 2025

- It is a *multilateral joint military exercise*.
- **Camaraderie between** - India and Russia.
- **Objectives** - To enhancing military cooperation, improving interoperability, and providing a platform for participating armies.
- To exchange tactics, techniques and procedures in the domains of conventional warfare and counter-terrorism operations.

Science

Cholesterol-based Nanomaterials

Scientists from Institute of Nano Science and Technology (INST), have introduced cholesterol-based nanomaterials.

- **Cholesterol** - It is a fat like waxy substance throughout the body.
- **Role** - Used to build cells and make vitamins and other hormones.
- **2 sources** -
 - Human liver makes all the cholesterol you need.
 - Foods from animals. For example, meat, poultry and dairy products all contain dietary cholesterol.
- **Newly discovered properties** - It enables precise control over molecular properties due to its intrinsic handedness (chirality) and flexibility.
- **Significance** - It is an ideal platform for constructing supramolecular based spintronic materials.

Institute of Nano Science and Technology (INST)

- It is an autonomous institution under *Department of Science and Technology (DST)*.
- **Started in** - 2013.
- **Umbrella programme** - Nano Mission.
- **Aim** - To boost research and development in the field of Nanoscience and Nanotechnology in India.

Nano Mission

- **Launched in** - 2007 evolved as National Programme on Nano Science and Technology.
- **Objectives** - To provide critical funding to competent groups to carry out very focused research in Nanoscience and develop nanotechnology-based applications.

Multi-Stage Malaria Vaccine AdFalcivax

Union government has granted licences to five Indian firms to manufacture and commercialise AdFalcivax.

- India's 1st indigenous recombinant chimeric multi-stage malaria vaccine designed to block infection and transmission of *plasmodium falciparum*, the deadliest malaria parasite.
- **Developed by** - ICMR's Regional Medical Research Centre with National Institute of Malaria Research and National Institute of Immunology.
- **Aim** - To prevent infection in individuals and minimise community transmission of malaria, by targeting the parasite before it enters the bloodstream.

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UK India Infrastructure Financing Bridge (UKIIFB)

- **Collaboration between** - NITI Aayog, and the City of London Corporation.
- **Aim** - To accelerate sustainable infrastructure development and secure long-term investment for vital infrastructure sectors in India.
- **Key achievements** - Development of a Project Assessment Framework clarifying investor priorities across highways and rapid transit sectors.
- Advancing sustainability and resilience, integrating climate adaptation and ESG frameworks into project design.
- Safeguarding investor returns through improved revenue protection and streamlined repatriation mechanisms.

Miscellaneous

World Duchenne Muscular Dystrophy Day

- **Celebrated annually on** - 7th September.
- **Theme 2025** - "Family: The Heart of Care."
- **Aim** - To raise public awareness and drive global efforts to improve the quality of life for individuals affected by it and their families.

Duchenne Muscular Dystrophy (DMD)

- It is a rare and progressive disorder that causes *gradual weakening of the muscles*.
- **Affects** - Children and progressively impacts mobility, breathing, and heart functions.
- **Prevention** - Timely intervention, awareness, education, and social inclusion are essential to improve the quality of life of persons affected by this condition.