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 provides 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.

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