



## DRDO & Research & Development:

### Major DRDO Accomplishment

**Maiden Test of Integrated Air Defence Weapon System (IADWS):** DRDO successfully conducted the first flight test of its indigenous Integrated Air Defence Weapon System (IADWS) off the coast of Odisha on August 23, 2025. This multi-layered system is a significant step towards bolstering India's air defense capabilities. The system successfully engaged and destroyed three separate aerial targets simultaneously, including two high-speed UAVs and a multi-copter drone, at different ranges and altitudes.

**Components of IADWS:** The IADWS is a fully indigenous system that integrates three key components:

Quick Reaction Surface-to-Air Missile (QRSAM)

Advanced Very Short Range Air Defence System (VSHORADS) missiles

High-power laser-based Directed Energy Weapon (DEW)

### Other Research & Development News

**India-France Jet Engine Collaboration:** India and France are set to formalize a landmark collaboration to co-develop and manufacture a new, powerful jet engine for India's indigenous fifth-generation fighter aircraft. The project, involving DRDO's Gas Turbine Research Establishment (GTRE) and French aerospace major Safran, is a major push for "Aatmanirbhar Bharat" in the defense sector, with a planned 100% transfer of technology.

**Development of High Purity Silicon Carbide:** The Technology Development Fund (TDF) has issued a Request for Proposal (RFP) for the "Development of High Purity Silicon Carbide Source Powder for the Bulk Growth of Silicon Carbide Single Crystals." This project is aimed at developing critical materials for advanced electronics and defense applications.

**Pralay Missile Tests:** Recent news also highlighted the successful flight tests of the Pralay missile on July 29, 2025. This is part of DRDO's ongoing efforts to enhance India's strategic missile capabilities.

**ICMR's "UNNATI" Project:** While not a DRDO project, the Indian Council of Medical Research (ICMR) has initiated a new project called "UNNATI" (Upgrading Norms for Growth and Development Assessment of Indian Children). This is a visionary project focused on improving child health and development in India, showcasing broader government R&D efforts.

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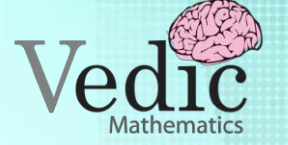
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**2.Which country is India collaborating with to co-develop a new jet engine for its indigenous fighter aircraft?**

- a) Russia
- b) United States
- c) Israel
- d) France

**Answer:** d) France.

The information mentions a landmark collaboration with French aerospace major Safran to co-develop and manufacture a new jet engine.

**3.Which component is NOT part of the newly tested IADWS?**

- a) Quick Reaction Surface-to-Air Missile (QRSAM)
- b) Long-Range Ballistic Missile (LRBM)
- c) Very Short Range Air Defence System (VSHORADS)
- d) High-power laser-based Directed Energy Weapon (DEW)

**Answer:** b) Long-Range Ballistic Missile (LRBM).

The text lists QRSAM, VSHORADS, and DEW as the three key indigenous components of the system.

**4.What is the primary focus of the ICMR's "UNNATI" project?**

- a) Enhancing India's space program
- b) Improving child health and development in India
- c) Developing new military technology
- d) Promoting renewable energy

**Answer:** b) Improving child health and development in India.

The text clearly states that the UNNATI project is focused on "Upgrading Norms for Growth and Development Assessment of Indian Children." Page | 2

## MCQS

**1.What was the most significant achievement of the maiden test of the Integrated Air Defence Weapon System (IADWS)?**

- a) It successfully intercepted a ballistic missile.
- b) It destroyed three aerial targets simultaneously.
- c) It launched a new type of reconnaissance drone.
- d) It demonstrated a new submarine detection capability.

**Answer:** b) It destroyed three aerial targets simultaneously.

The text highlights this as a key success, showcasing the system's ability to handle multiple threats at once.







5.The Technology Development Fund (TDF) issued a Request for Proposal for the development of which critical material?

- a) High Purity Silicon Carbide
- b) Graphene
- c) Carbon Nanotubes
- d) Lithium-Ion batteries

**Answer:** a) High Purity Silicon Carbide.

The provided information specifically mentions the RFP for the "Development of High Purity Silicon Carbide Source Powder" for advanced electronics and defense applications.



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