

DRDO & Research & Development:

Strategic Projects & System Development

Integrated Air Defence Weapon System (IADWS): The DRDO successfully conducted the maiden flight tests of the Integrated Air Defence Weapon System (IADWS) in late August 2025 off the coast of Odisha. This system, India's first fully indigenous multi-layered air defense shield, successfully engaged and destroyed three aerial targets simultaneously. The system integrates indigenously developed technologies such as Quick Reaction Surface-to-Air Missiles (QRSAM), Very Short Range Air Defence Systems (VSHORADS), and a high-power laser-based Directed Energy Weapon (DEW).

Project Kusha: The DRDO is gearing up for a significant test of the Project Kusha M1 missile in September 2025. This test is a crucial step in India's ambitious project to develop a nationwide defense shield for critical civilian and strategic sites by 2035, under the newly announced "Mission Sudarshan Chakra." The M1 variant is the first of a three-part system, with the M2 and M3 variants planned for testing in 2027 and 2028, respectively.

Pralay Missile: In late July 2025, the DRDO successfully conducted two consecutive flight tests of the Pralay missile as part of its User Evaluation Trials. The tests, performed off the coast of Odisha, validated the missile's maximum and minimum range capabilities, paving the way for its induction into the armed forces.

Indigenous Innovation & Industry Collaboration

Defence Test Facility: Defence Minister Rajnath Singh inaugurated a new state-of-the-art defense test facility in Noida on August 31, 2025. The facility belongs to Raphe mPhibr, a startup supported by the government's iDEX initiative. Three products developed jointly by Raphe mPhibr and DRDO were successfully deployed during 'Operation Sindoor,' which demonstrated India's growing self-reliance in defense technology.

Submarine Component Order: Mistral Solutions, a subsidiary of AXISCADES Technologies, has received a significant order from DRDO's Combat Aircraft Systems Development & Integration Centre (CASDIC) for the development of electronic control units for the Su-30 MKI upgrade. This order supports the indigenous development and integration of critical components for India's air fleet.

Indian Army Cyber Quest 2025: The Indian Army, in collaboration with IIT Madras, launched the "Terrier Cyber Quest 2025," a national-level challenge focused on finding innovative solutions for cybersecurity and defense. This initiative is aimed at fostering research and development in emerging technologies such as AI and Quantum Computing.





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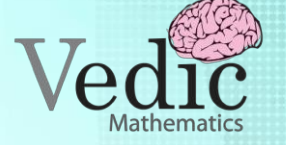
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MCQS

1.What is the name of India's first fully indigenous multi-layered air defense shield that was recently flight-tested by the DRDO?

- a) Project Kusha
- b) Pralay Missile
- c) Integrated Air Defence Weapon System (IADWS)
- d) Mission Sudarshan Chakra

Answer: c) Integrated Air Defence Weapon System (IADWS)

The text states, "The DRDO successfully conducted the maiden flight tests of the Integrated Air Defence Weapon System (IADWS)... This system, India's first fully indigenous multi-layered air defense shield, successfully engaged and destroyed three aerial targets simultaneously."

2.What is the primary objective of "Mission Sudarshan Chakra," under which Project Kusha is being developed?

- a) To upgrade all existing air force fighter jets.
- b) To develop a nationwide defense shield for critical civilian and strategic sites.
- c) To increase the production of indigenous drones.
- d) To improve cybersecurity in military networks.

Answer: b) To develop a nationwide defense shield for critical civilian and strategic sites.

The text says, "This test [of Project Kusha] is a crucial step in India's ambitious project to develop a nationwide defense shield for critical civilian and strategic sites by 2035, under the newly announced 'Mission Sudarshan Chakra.'"





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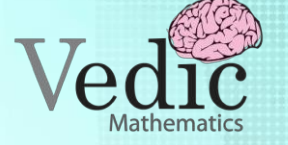
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3. Which of the following technologies is part of the Integrated Air Defence Weapon System (IADWS)?

- a) Air Independent Propulsion (AIP)
- b) A high-power laser-based Directed Energy Weapon (DEW)
- c) Stealth technology
- d) Long-range ballistic missiles

Answer: b) A high-power laser-based Directed Energy Weapon (DEW)

The text mentions that the IADWS "integrates indigenously developed technologies such as Quick Reaction Surface-to-Air Missiles (QRSAM), Very Short Range Air Defence Systems (VSHORADS), and a high-power laser-based Directed Energy Weapon (DEW)."

4. What was the outcome of the recent flight tests of the Pralay missile?

- a) It failed to hit its target.
- b) It successfully validated its maximum and minimum range capabilities.
- c) It was tested for its speed and stealth features only.
- d) It was tested as a part of a new air defense system.

Answer: b) It successfully validated its maximum and minimum range capabilities. The text states, "The tests... validated the missile's maximum and minimum range capabilities, paving the way for its induction into the armed forces."

5. The "Terrier Cyber Quest 2025" is a national-level challenge launched by the Indian Army in collaboration with which institution?

- a) DRDO
- b) IIT Madras
- c) Raphe mPhibr
- d) AXISCADES Technologies

Answer: b) IIT Madras

The text states, "The Indian Army, in collaboration with IIT Madras, launched the 'Terrier Cyber Quest 2025,' a national-level challenge focused on finding innovative solutions for cybersecurity and defense."

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