

# **Spardhaguru India Private Limited**

### DRDO & Research & Development

#### 10 Years of Excellence



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# DRDO & Research & Development:

Integrated Air Defence Weapon System (IADWS): DRDO successfully conducted the maiden flight tests of the IADWS on August 23, 2025. This is a multi-layered air defense shield that integrates three indigenous technologies:

Quick Reaction Surface-to-Air Missiles (QRSAM)

Very-Short Range Air Defence System (VSHORADS) missiles

#### A high-power laser-based Directed Energy Weapon (DEW)

During the tests off the coast of Odisha, the system successfully engaged and destroyed three simultaneous aerial targets, including two high-speed fixed-wing UAVs and a drone. This success follows lessons from "Operation Sindoor" in May, which highlighted the need for homegrown defense systems.

Advanced Medium Combat Aircraft (AMCA) MkII: DRDO's Aeronautical Development Agency (ADA) is advancing its work on the AMCA MkII, a fifth-generation stealth fighter. A central part of this project is the AI-powered E-Pilot (Electronic Pilot) system, which is being developed to handle autonomous takeoffs, landings, and eventually, combat missions without a human pilot.

Space-Based Interceptors: Under the Sudarshan Chakra program, India is reportedly working on developing space-based interceptors neutralize hostile ballistic missiles during their most vulnerable "boost-phase." This program

builds on DRDO's Project Kusha and aims to provide a next-generation missile defense shield.

#### Other Projects:

The Indian Army's "Fleur-De-Lis Brigade," in collaboration with DRDO's Terminal Ballistics Research Laboratory, has successfully tested a kamikaze FPV drone with an anti-tank munition.

DRDO successfully conducted ground trials of an indigenous automatic fire protection system for the Dornier-228 aircraft.

DRDO also test-fired the indigenous Beyond Visual Range Air-to-Air Missile (BVRAAM) 'Astra' with an indigenous Radio Frequency (RF) seeker.

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# 2. What type of targets did the IADWS successfully engage and destroy during its flight tests off the coast of Odisha?

- a) A single high-speed fixed-wing UAV.
- b) Three simultaneous aerial targets, including two high-speed fixed-wing UAVs and a drone.
- c) Two hostile fighter jets.
- d) A cruise missile and a helicopter.

**Answer:** b) Three simultaneous aerial targets, including two high-speed fixed-wing UAVs and a drone.

The text states that the system "successfully engaged and destroyed three simultaneous aerial targets, including two high-speed fixed-wing UAVs and a drone."

# 3. What is the key feature of the AMCA MkII project being developed by DRDO's Aeronautical Development Agency (ADA)?

- a) A new type of stealth material for the aircraft's body.
- b) An Al-powered E-Pilot system for autonomous flight.
- c) A new engine co-developed with a foreign partner.
- d) A new type of vertical take-off and landing capability.

**Answer:** b) An AI-powered E-Pilot system for autonomous flight.

The text highlights that a "central part of this project is the AI-powered E-Pilot (Electronic Pilot) system, which is being developed to handle autonomous takeoffs, landings, and eventually, combat missions without a human pilot."

# 4. The "Sudarshan Chakra" program is aimed at developing what?

- a) An advanced satellite communication system.
- b) A new type of attack helicopter.

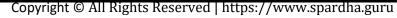
## **MCQS**

- 1. Which of the following is NOT one of the three indigenous technologies integrated into the new Integrated Air Defence Weapon System (IADWS)?
- a) Quick Reaction Surface-to-Air Missiles (QRSAM)
- b) Very-Short Range Air Defence System (VSHORADS) missiles
- c) A high-power laser-based Directed Energy Weapon (DEW)
- d) BrahMos Supersonic Cruise Missile

Answer: d) BrahMos Supersonic Cruise Missile The text explicitly lists QRSAM, VSHORADS, and a laser-based DEW as the three indigenous technologies integrated into the IADWS. The BrahMos missile is not mentioned as part of this specific system.

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- Space-based interceptors to neutralize hostile ballistic missiles.
- d) A new reconnaissance satellite.

**Answer:** c) Space-based interceptors neutralize hostile ballistic missiles.

The text explicitly states that under the Sudarshan Chakra program, "India is reportedly working developing space-based on interceptors to neutralize hostile ballistic missiles."

- 5. What type of drone was successfully tested by the Indian Army's "Fleur-De-Lis Brigade" in collaboration with DRDO?
- a) A surveillance drone with high-resolution cameras.
- b) A cargo drone for delivering supplies.
- c) A kamikaze FPV drone with an anti-tank munition.
- d) A solar-powered long-endurance drone.

Answer: c) A kamikaze FPV drone with an antitank munition.

The text notes that the "Fleur-De-Lis Brigade," ru India Private Limited in collaboration with DRDO, "has successfully tested a kamikaze FPV drone with an anti-tank munition."

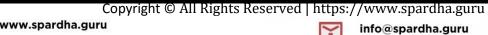
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