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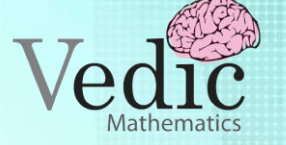
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## DRDO & Research & Development:

### Key Highlights

**Agni-5 Test:** The Defence Research and Development Organisation (DRDO) successfully test-fired the Agni-5 missile from the Integrated Test Range at Chandipur, Odisha. This was a routine user trial conducted under the Strategic Forces Command.

**MIRV Capability:** The test validated the missile's Multiple Independently Targetable Re-entry Vehicle (MIRV) technology, which allows a single missile to deliver multiple nuclear warheads to different targets. This technology significantly enhances India's nuclear deterrence by providing a robust second-strike capability.

**Strategic Reach:** With a range of over 5,000 kilometers, the Agni-5 is nuclear-capable and can reach targets across almost all of Asia, including northern parts of China, and parts of Europe. An upgraded version with a range of up to 7,500 km is reportedly under development.

**Laser Weapon Prototyping:** DRDO's Centre for High Energy Systems and Sciences (CHESS) has entered the prototyping phase for a more powerful 50kW solid-state laser weapon. This is an upgrade from the 30kW system and is designed to neutralize larger aerial threats such as drones, helicopters, and incoming rockets. It will include a sophisticated beam control system and an integrated Ku-band radar suite for precision targeting.

### Other DRDO & Defence News

**Mission Sudarshan Chakra:** The government has announced "Mission Sudarshan Chakra," an ambitious plan to build a multi-layered integrated air and missile defense shield. This shield, developed by DRDO, will include an overlapping network of sensors and interceptor missiles. Phase-1 of this indigenous ballistic missile defence (BMD) system, with a 2,000 km range, is in development.

**Naval & Air Force Procurement:** The Cabinet Committee on Security has approved the procurement of six Airborne Early Warning and Control (AEW&C) aircraft for the Indian Air Force, based on the Airbus A321 platform.

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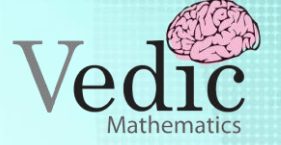
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## MCQS

1. What is the primary purpose of India's recent test-firing of the Agni-5 missile?

- A) To showcase its new cruise missile technology.
- B) To test its range for a future space mission.
- C) To validate its operational and technical parameters as a routine user trial.
- D) To demonstrate its ability to intercept enemy aircraft.

**Answer:** C) To validate its operational and technical parameters as a routine user trial.

The news states that the Agni-5 test was a "routine user trial" conducted under the Strategic Forces Command to validate the missile's operational and technical capabilities.

2. What notable capability does the Agni-5 missile possess, according to the provided text?

- A) The ability to launch satellites into geostationary orbit.
- B) The ability to carry a single warhead to multiple targets.
- C) The ability to carry multiple warheads to different targets (MIRV).
- D) The ability to intercept hypersonic missiles.

**Answer:** C) The ability to carry multiple warheads to different targets (MIRV).

The text highlights that a key feature of the Agni-5 is its Multiple Independently Targetable Re-entry Vehicle (MIRV) capability, which allows it to deliver multiple warheads to different targets with a single missile.

3. What is one of the primary technologies being tested on the U.S. Space Force's X-37B Orbital Test Vehicle (OTV-8) mission?

- A) A new solar panel design for space stations.
- B) A new type of rocket propulsion system.
- C) A quantum inertial sensor for navigation without GPS.
- D) A new space telescope for deep space observation.

**Answer:** C) A quantum inertial sensor for navigation without GPS.

The news explicitly states that a primary objective of the OTV-8 mission is to test an advanced quantum inertial sensor, which uses the behavior of atoms to enable highly accurate navigation without relying on satellite networks like GPS.

4. From where was the Agni-5 missile successfully test-fired?

- A) Sriharikota, Andhra Pradesh
- B) Pokhran, Rajasthan
- C) Chandipur, Odisha







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D) Thiruvananthapuram, Kerala

**Answer:** C) Chandipur, Odisha

The news specifies that the Agni-5 test was conducted from the Integrated Test Range located at Chandipur, Odisha.

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