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DRDO & Research & Development:

"Operation Sindoor" and Indigenous Weapons:

During his Independence Day speech, PM Narendra Modi highlighted the success of "Operation Sindoor," a military response to the Pahalgam terror attack. The DRDO chairman, Samir V. Kamat, confirmed that key indigenous systems like the BrahMos missile and the Akashteer air defense system were instrumental in the operation. This was presented as a clear example of the effectiveness of "Made in India" weapons.

New Indigenous Defence System: The Prime Minister also announced the launch of "Mission Sudarshan Chakra," an indigenous, multi-layered weapon system designed to protect critical national sites from potential attacks. This mission is part of a broader ten-year plan to modernize India's national security shield.

Expanding "Project Kusha": DRDO's flagship initiative, Project Kusha, which aims to develop an indigenous long-range surface-to-air missile (SAM) system, is expanding its scope. It will now include four variants of interceptor missiles, with ranges up to 400 km. The first development trial for one of these variants (the M1) is scheduled for September 2025.

New Technology Transfer Policy: DRDO has unveiled a new technology transfer policy for 2025. The policy is designed to streamline the transfer of technology to private industries, with a specific focus on MSMEs and startups. The goal is to reduce compliance burdens and accelerate the transfer of both military and "dual-use" technologies.

High-Stakes Missile Test: A Notice to Airmen (NOTAM) has been extended for a high-stakes missile test in the Indian Ocean, scheduled for August 20-21. Defence analysts speculate that this could involve an advanced variant of the Agni series or a new long-range ballistic missile, a move that aligns with DRDO's efforts to enhance India's missile capabilities and deterrence posture.

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2. What is the primary purpose of "Mission Sudarshan Chakra"?

- A) To develop a new fighter jet
- B) To protect critical national sites with a multi-layered weapon system
- C) To create an indigenous long-range missile
- D) To build a new naval fleet

Answer: B) To protect critical national sites with a multi-layered weapon system
The news states that "Mission Sudarshan Chakra" is an indigenous, multi-layered weapon system designed to protect critical national sites from potential attacks.

3. What is the main objective of "Project Kusha"?

- A) To develop an indigenous long-range surface-to-air missile (SAM) system
- B) To build a new naval submarine
- C) To create a new ballistic missile
- D) To develop drones for surveillance

Answer: A) To develop an indigenous long-range surface-to-air missile (SAM) system
The news clearly states that "Project Kusha" is a flagship initiative that aims to develop an indigenous long-range surface-to-air missile (SAM) system.

4. When is the first development trial for a variant of the "Project Kusha" interceptor missile scheduled?

- A) August 2025
- B) September 2025
- C) October 2025
- D) December 2025

Answer: B) September 2025
The news states that the first development trial for one of the variants (the M1) is scheduled for September 2025.

MCQS

1. Which indigenous systems were confirmed by the DRDO chairman to be instrumental in "Operation Sindoor"?

- A) BrahMos missile and Agni series
- B) BrahMos missile and Akashteer air defense system
- C) Agni series and Akashteer air defense system
- D) Mission Sudarshan Chakra and Project Kusha

Answer: B) BrahMos missile and Akashteer air defense system

The news states that DRDO chairman, Samir V. Kamat, confirmed that key indigenous systems like the BrahMos missile and the Akashteer air defense system were instrumental in the operation.





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5. What is the primary focus of DRDO's new technology transfer policy for 2025?

- A) To streamline technology transfer to international partners
- B) To reduce compliance burdens and accelerate technology transfer to private industries, especially MSMEs and startups
- C) To focus exclusively on transferring technology for military use
- D) To transfer technology only to large-scale corporations

Answer: B) To reduce compliance burdens and accelerate technology transfer to private industries, especially MSMEs and startups
The news states that the new policy is designed to streamline the transfer of technology to private industries, with a specific focus on MSMEs and startups, to reduce compliance burdens.

6. What is the speculation regarding the high-stakes missile test scheduled for August 20-21?

- A) It is a test of a short-range missile.
- B) It is a test of a new Agni series variant or a new long-range ballistic missile.
- C) It is a test of a submarine-launched missile.
- D) It is a test of an anti-satellite weapon.

Answer: B) It is a test of a new Agni series variant or a new long-range ballistic missile.
The news states that defense analysts speculate the test could involve an advanced variant of the Agni series or a new long-range ballistic missile.

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