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DRDO & Research & Development:

Major Developments & Trials

Integrated Air Defence Weapon System (IADWS): DRDO successfully conducted the maiden flight tests of the IADWS off the coast of Odisha. This multi-layered system includes a mix of indigenous Quick Reaction Surface to Air Missiles (QRSAM), Advanced Very Short Range Air Defence System (VSHORADS) missiles, and a high-power laser-based Directed Energy Weapon (DEW). The system, which can simultaneously engage and destroy multiple targets, is a critical step towards India's ambitious 'Mission Sudarshan Chakra' to create an indigenous air defence shield.

'Project Kusha' Interceptor Missiles: Under 'Project Kusha', DRDO is set to begin testing new long-range interceptor missiles. The first of these, the M1 missile with an interception range of 150 km, is scheduled for testing in 2026. This will be followed by the M2 (250 km range) and M3 (350 km range) in subsequent years. The goal is to complete the system by 2028 to rival expensive foreign systems like the S-400.

Indigenous Prosthesis: The Defence Research and Development Laboratory (DRDL), Hyderabad, in collaboration with AIIMS, Bibinagar, has successfully developed ADIDOC-Optimised Carbon Foot Prosthesis. This is India's first "Made in India" advanced carbon fiber foot prosthesis, designed for high-performance users.

Astra Missile: The DRDO and Indian Air Force successfully conducted flight tests of the indigenous Beyond Visual Range Air-to-Air Missile (BVRAAM) 'Astra', which is equipped with an indigenous Radio Frequency (RF) seeker.

Recruitments and Other Notices

Scientist Recruitment: DRDO issued a public notice stating that recruitment for the post of Scientist 'B' in 2026 will be based on a valid GATE (Graduate Aptitude Test in Engineering) score.

Research Fellows: DRDO also posted advertisements for the engagement of Research Associates and Junior Research Fellows at various labs, including the Defence Institute of Bio-Energy Research (DIBT), Mysore.

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2:Under which project is DRDO developing new long-range interceptor missiles to be tested starting in 2026?

- A) Project Kusha
- B) Mission Sudarshan Chakra
- C) Project Astra
- D) Project ADIDOC

Answer: A) Project Kusha

The news explicitly mentions that under 'Project Kusha', India is scheduled to begin testing new long-range interceptor missiles.

3:The ADIDOC-Optimised Carbon Foot Prosthesis, developed in collaboration with AIIMS, Bibinagar, is notable because:

- A) It is India's first fully indigenous fighter jet engine.
- B) It is a new type of long-range ballistic missile.
- C) It is India's first "Made in India" advanced carbon fiber foot prosthesis.
- D) It is a new radar system for naval ships.

Answer: C) It is India's first "Made in India" advanced carbon fiber foot prosthesis.

The text describes the ADIDOC-Optimised Carbon Foot Prosthesis as "the first 'Made in India' advanced carbon fibre foot prosthesis."

4:The 'Astra' missile that was successfully flight-tested is a:

- A) Ballistic missile.
- B) Short-range surface-to-air missile.
- C) Beyond Visual Range Air-to-Air Missile (BVRAAM).
- D) Directed Energy Weapon (DEW).

Answer: C) Beyond Visual Range Air-to-Air Missile (BVRAAM).

The news states that the 'Astra' is an "indigenous Beyond Visual Range Air-to-Air Missile (BVRAAM)."

MCQS

1:What is the primary function of the Integrated Air Defence Weapon System (IADWS) that DRDO successfully tested?

- A) To develop new fighter jet engines.
- B) To protect strategic and civilian areas from aerial threats.
- C) To assist in naval operations and shipbuilding.
- D) To create indigenous prosthetic devices for military personnel.

Answer: B) To protect strategic and civilian areas from aerial threats.

The text states that the IADWS is part of 'Mission Sudarshan Chakra' to create an indigenous air defence shield to protect strategic and vital civilian areas.





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5:According to the public notice from DRDO, what is a key requirement for direct recruitment of Scientist 'B' in 2026?

- A) A valid Ph.D. in a science discipline.
- B) A minimum of five years of research experience.
- C) A valid GATE (Graduate Aptitude Test in Engineering) score.
- D) Passing a special entrance exam conducted by DRDO.

Answer: C) A valid GATE (Graduate Aptitude Test in Engineering) score.

The news states that "The direct recruitment to the post of Scientist 'B' will be conducted based on a valid GATE (Graduate Aptitude Test in Engineering) score."

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