DRDO & Research & Development:

Missile Testing: The DRDO successfully conducted two consecutive flight tests of the Pralay missile from Dr. A.P.J. Abdul Kalam Island off the coast of Odisha. These tests, part of a user evaluation, validated the solid-propellant quasi-ballistic missile's ability to precisely hit targets at its maximum and minimum ranges. Pralay can carry various warheads and is being prepared for induction into the armed forces.

Unmanned Systems: In a significant boost to indigenous defense, the DRDO successfully completed flight trials of the Unmanned Aerial Vehicle Launched Precision Guided Missile (ULPGM)-V3. This enhanced missile, equipped with a high-definition dual-channel seeker, can be fired in both plain and high-altitude areas.

Through Wall Imaging Radar (TWIR): The DRDO demonstrated its indigenously developed TWIR system to the National Disaster Response Force (NDRF) and police forces. The radar can image scenarios and identify the number and location of people behind a wall, which is crucial for hostage situations and disaster relief.

Wild Land Firefighting Suit: The Centre for Fire, Explosive & Environment Safety (CFEES) developed a 'Wild Land Firefighting Suit' using a high content of indigenous fire-retardant fibers. This innovation is a major step toward self-reliance in the production of protective gear.

Strategic Defense & Naval Developments

Naval Technology: The Indian Navy is pushing to modernize its fleet by incorporating nuclear propulsion systems and Electromagnetic Aircraft Launch Systems (EMALS) into its next-generation aircraft carrier. This move is designed to enhance operational endurance and the ability to launch heavier aircraft, including unmanned combat aerial vehicles (UCAVs). The Indian Navy has also contracted Bharat Electronics Limited (BEL) to implement the National Maritime Domain Awareness (NMDA) Project to strengthen maritime security.

Aircraft Engine Development: The Gas Turbine Research Establishment (GTRE) successfully tested the Kaveri Dry Engine (KDE) with unrestricted throttle movement. This engine, a derivative of the indigenous Kaveri turbofan, is being developed as the propulsion system for India's stealth UCAV platform.

Policy & Manufacturing: The state of Haryana unveiled a new aerospace and defense policy aimed at making the state a leading defense manufacturing hub. The policy seeks to attract over $1 billion in investment and create thousands of jobs, reinforcing the "Make in India" initiative.

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MCQS

1: What type of missile is the Pralay, which was successfully flight-tested by the DRDO?
A) Cruise missile
B) Air-to-air missile
C) Quasi-ballistic missile
D) Anti-tank guided missile

Answer: C) Quasi-ballistic missile
The news states, "The DRDO successfully conducted two consecutive flight tests of the Pralay missile... a solid-propellant quasi-ballistic missile."

2: The DRDO's newly demonstrated Through Wall Imaging Radar (TWIR) is designed to assist which organizations?
A) Indian Air Force and Army
B) Border Security Force and Coast Guard
C) National Disaster Response Force (NDRF) and police forces
D) All of the above

Answer: C) National Disaster Response Force (NDRF) and police forces
The summary mentions that the DRDO "demonstrated its indigenously developed TWIR system to the National Disaster Response Force (NDRF) and police forces."

3: What is the new 'Wild Land Firefighting Suit' developed by the CFEES made of?
A) Nylon and polyester
B) Indigenous fire-retardant fibers
C) A carbon fiber composite
D) Kevlar and Nomex

Answer: B) Indigenous fire-retardant fibers
The news states, "The Centre for Fire, Explosive & Environment Safety (CFEES) developed a 'Wild Land Firefighting Suit' using a high content of indigenous fire-retardant fibers."

4: What two advanced technologies is the Indian Navy planning to incorporate into its next-generation aircraft carrier?
A) Nuclear propulsion systems and Electromagnetic Aircraft Launch Systems (EMALS)
B) Solar-powered engines and Vertical Take-Off and Landing (VTOL) systems
C) Hypersonic missile launchers and advanced radar jamming systems
D) Automated docking systems and underwater drones

Answer: A) Nuclear propulsion systems and Electromagnetic Aircraft Launch Systems (EMALS)
The news states that the Indian Navy is "incorporating nuclear propulsion systems and Electromagnetic Aircraft Launch Systems (EMALS) into its next-generation aircraft carrier."

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5: The Kaveri Dry Engine (KDE) is being developed as the propulsion system for which platform?
A) The next-generation fighter jet
B) An advanced main battle tank
C) India's stealth Unmanned Combat Aerial Vehicle (UCAV) platform
D) A new anti-ballistic missile system

Answer: C) India's stealth Unmanned Combat Aerial Vehicle (UCAV) platform
The summary mentions that the KDE "is being developed as the propulsion system for India's stealth UCAV platform."

6: What is the primary objective of Haryana's new aerospace and defense policy?
A) To attract foreign tourists.
B) To become a leading defense manufacturing hub.
C) To establish a new international airport.
D) To build a new space research center.

Answer: B) To become a leading defense manufacturing hub.
The news states that the policy is "aimed at making the state a leading defense manufacturing hub."

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