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DRDO & Research & Development:

New Indigenous Technology

Digital Active Phased Array (DAPA) Radar: The DRDO has developed a new Digital Active Phased Array (DAPA) Radar, a rotating, multi-function 4D radar for comprehensive aerial surveillance. This next-generation radar can automatically detect and track aerial targets, from fast fighter aircraft to slow-moving drones, with a detection range of around 200 km. Its modular design allows it to be used for different applications, including air defense and tactical operations.

STAR Supersonic Target Units: The Indian Armed Forces plan to acquire 150 Supersonic Target (STAR) units, which were developed indigenously by the DRDO. These units can simulate high-speed threats, such as advanced cruise missiles, for air defense training and missile testing. They can reach speeds of up to Mach 2.5, helping to bolster India's self-reliance in defense technology.

Mobile Ecosystem: India's Army Chief, General Upendra Dwivedi, announced that the indigenously developed mobile ecosystem, SAMBHAV, was successfully used in a recent counter-terrorism operation.

Other DRDO Developments

Conclave for MSMEs: The DRDO's Defence Technology and Test Centre (DTTC) in Lucknow held a conclave to collaborate with MSMEs (Micro, Small, and Medium Enterprises) and start-ups. The goal is to build the capacity of

these smaller firms for defense research and development, a move aimed at further developing the Uttar Pradesh Defence Industrial Corridor and strengthening India's defense manufacturing ecosystem.

Technology Transfers: In a recent event, the DRDO's Defence Metallurgical Research Laboratory (DMRL) in Hyderabad transferred three advanced materials technologies to industry partners. These technologies included the manufacturing of high-strength radomes (protective covers for missile sensors), specialized steel for defense applications, and high-strength low-alloy (HSLA) steel for naval vessel construction. These transfers are intended to boost indigenous production and reduce import dependency.

Flight Tests: The DRDO also recently conducted two successful flight tests of the Pralay missile and flight trials of the Unmanned Aerial Vehicle Launched Precision Guided Missile (ULPGM)-V3 for user evaluation.

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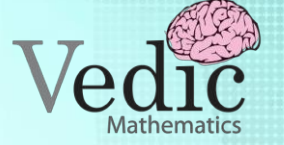
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- c) SAMBHAV
d) Pralay

Answer: c) SAMBHAV

The news reports that India's Army Chief announced the "indigenously developed mobile ecosystem, SAMBHAV, was successfully used in a recent counter-terrorism operation."

3.What is the maximum speed of the STAR Supersonic Target units?

- a) Mach 1
b) Mach 2.5
c) Mach 5
d) Mach 10

Answer: b) Mach 2.5

The news states that the STAR units "can reach speeds of up to Mach 2.5."

4.The DRDO's Defence Metallurgical Research Laboratory (DMRL) transferred technology for the manufacturing of what to industry partners?

- a) Fighter jets
b) Drones
c) Radomes and specialized steel
d) Satellites

Answer: c) Radomes and specialized steel

The text states that the DMRL transferred technologies for "the manufacturing of high-strength radomes... specialized steel for defense applications, and high-strength low-alloy (HSLA) steel."

5.The conclave held by the DRDO's DTTC in Lucknow was for collaboration with which group?

- a) International defense companies
b) Indian Air Force pilots
c) MSMEs and start-ups
d) Foreign military attaches

MCQS

1.What is the primary function of the newly developed Digital Active Phased Array (DAPA) Radar by the DRDO?

- a) To launch missiles
b) To provide comprehensive aerial surveillance
c) To simulate supersonic threats for training
d) To communicate with submarines

Answer: b) To provide comprehensive aerial surveillance

The news states that the DAPA Radar is a "multi-function 4D radar for comprehensive aerial surveillance."

2.What is the name of the indigenously developed mobile ecosystem that was used in a recent counter-terrorism operation?

- a) DAPA
b) STAR





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Answer: c) MSMEs and start-ups

The news mentions that the conclave was held "to collaborate with MSMEs (Micro, Small, and Medium Enterprises) and start-ups."

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