

# Daily Current Affairs

## 19 August 2026

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## Daily Current Affairs Quiz 19 August 2026

**Q1.** What does AMCA stand for?

- (a) Advanced Military Combat Aircraft
- (b) Advanced Medium Combat Aircraft
- (c) Advanced Multirole Combat Aircraft
- (d) Airborne Medium Combat Aircraft

**Ans.(b)**

**Sol.** The correct answer is (B) Advanced Medium Combat Aircraft

Explanation:

- AMCA stands for Advanced Medium Combat Aircraft, which is India's premier national program to independently architect, develop, and manufacture an indigenous fifth-generation stealth fighter jet to serve the long-term strategic needs of the Indian Air Force.
- Formulated as a 25-tonne twin-engine aircraft platform, the Advanced Medium Combat Aircraft is engineered with specialized radar-absorbing materials (RAM), low-observable geometric shapes, and diverterless supersonic air inlets to keep its radar cross-section (RCS) at an absolute minimum.
- The conceptual design and engineering parameters of the Advanced Medium Combat Aircraft cater to a wide multi-mission profile, ensuring it can perform complex roles ranging from standard air superiority and deep strike penetration into heavily contested zones to maritime offensive operations.
- This landmark fighter platform will incorporate internal weapons bays in its fuselage belly to ensure that carrying standard missiles or precision-guided munitions does not compromise the stealth signature during high-risk missions.
- The execution of this indigenous flagship platform elevates India's status into an elite, highly restricted group of global superpowers possessing the independent technological capability to build next-generation stealth warplanes from scratch.

Information Booster:

- The Advanced Medium Combat Aircraft will feature highly modern sub-systems, including an Active Electronically Scanned Array (AESA) radar, Infrared Search and Track (IRST) arrays, fully integrated multi-sensor data fusion, and an artificial intelligence-assisted decision-support electronic pilot cockpit.
- The initial phase of production, known as the AMCA Mark 1 variant, will operate using imported American GE-F414 engines generating approximately 90kN of thrust, while the subsequent AMCA Mark 2 variant will be powered by a superior indigenously co-developed high-thrust power plant.

Additional Knowledge:

- Advanced Military Combat Aircraft (Option A): While the fighter is explicitly designed for military combat deployment, this terminology is technically incorrect and is not used in official Ministry of Defence or DRDO notifications.
- Advanced Multirole Combat Aircraft (Option C): Although the platform natively performs multirole combat operations including swing-role combat missions, 'Multirole' is not the official name chosen for this project; 'Medium' describes its exact weight category classification.
- Airborne Medium Combat Aircraft (Option D): This choice represents an incorrect combination of technical terms, as all combat aircraft are airborne by design, and it does not align with the historical naming conventions of India's aerospace research programs.

**Q2.** Which foreign company announced a strategic partnership with Reliance Industries to design, develop and manufacture an indigenous combat engine in India in August 2026?

- (a) Safran
- (b) Rolls-Royce
- (c) General Electric
- (d) Pratt & Whitney

**Ans.(b)**

**Sol.** The correct answer is (B) Rolls-Royce

Explanation:

- British aerospace and power systems corporation Rolls-Royce announced a strategic partnership with Reliance Industries in August 2026 to co-develop and manufacture combat jet engines in India.
- Under the partnership, Rolls-Royce will transfer critical core technology, intellectual property, and single-crystal blade manufacturing expertise to facilitate local production.
- The initiative aims to manufacture high-thrust gas turbine engines for India's indigenous fighter jet programs, specifically the Advanced Medium Combat Aircraft (AMCA Mk-2).
- Rolls-Royce brings extensive global defense experience, having developed military engines such as the EJ200 for the Eurofighter Typhoon and the Pegasus for V/STOL jets.
- The partnership includes establishing advanced manufacturing, testing, assembly, and Maintenance, Repair, and Overhaul (MRO) facilities within India.
- Co-developing defense engines with shared Intellectual Property (IP) ensures long-term operational autonomy and supports future export opportunities for India.

Information Booster:

- Rolls-Royce Holdings plc is headquartered in the United Kingdom and ranks among the top global manufacturers of military and commercial aero-engines.
- Technology transfer in jet engines represents the highest tier of defense technology sharing, involving complex hot-section components.
- India's Aeronautical Development Agency (ADA) leads the design of indigenous combat platforms including the LCA Tejas and AMCA.
- High-thrust engines for 5th-generation stealth fighters require 110 kN to 130 kN thrust ratings with low radar signature nozzles.
- Defense joint ventures strengthen domestic supply chains, generating high-skilled engineering jobs and supporting domestic aerospace MSMEs.
- India's Defense Acquisition Procedure (DAP) provides structured guidelines for strategic partnerships between foreign OEMs and Indian private firms.

Additional Knowledge:

- Safran (Option A): Leading French aerospace manufacturer co-developing helicopter engines (Shakti with HAL) and offering engine technology transfer through DRDO GTRE partnerships.
- General Electric (Option C): American defense giant (GE Aerospace) manufacturing F404 engines for LCA Tejas Mk-1A and partnering with HAL to manufacture F414 engines for Tejas Mk-2.
- Pratt & Whitney (Option D): Major American aircraft engine manufacturer supplying commercial jet engines (PW1000G) and military engines (F135 for F-35), but not the entity partnering with Reliance in this agreement.

**Q3.** In August 2026, what is the proposed facility that Reliance Industries and Rolls-Royce may establish in India for the combat engine programme?

- (a) Aerospace Gas Turbine Complex
- (b) National Aero Propulsion Centre
- (c) Integrated Fighter Manufacturing Complex
- (d) Advanced Defence Engine Research Centre

**Ans.(a)**

**Sol.** The correct answer is (A) Aerospace Gas Turbine Complex

Explanation:

- As part of their strategic partnership announced in August 2026, Reliance Industries and Rolls-Royce proposed setting up a dedicated 'Aerospace Gas Turbine Complex' in India.
- The proposed Aerospace Gas Turbine Complex is planned as a state-of-the-art facility featuring specialized foundries, precision machining equipment, high-altitude test cells, and assembly lines.
- The complex will handle the complete lifecycle of military aero-engines, including design customization, component casting, engine assembly, testing, and MRO (Maintenance, Repair, and Overhaul).
- Establishing a local gas turbine complex ensures hot-section engine components like high-pressure turbine blades and combustors can be produced locally without foreign reliance.
- The facility is designed to support both initial engine production for the AMCA program and long-term technological upgrades and export demands.
- The complex will integrate advanced manufacturing techniques, including additive manufacturing, single-crystal alloy casting, digital twin modeling, and thermal barrier coatings.

Information Booster:

- Gas turbine engines operate under extreme thermal and mechanical conditions, requiring specialized facilities capable of testing engines under simulated altitude environments.
- The Gas Turbine Research Establishment (GTRE) under DRDO in Bengaluru is India's primary government laboratory for military gas turbine research.
- Domestic MRO (Maintenance, Repair, and Overhaul) facilities reduce operational maintenance costs and lifecycle downtime for military aircraft fleets.
- Advanced defense complexes established under 'Make in India' help build robust tier-1 and tier-2 vendor ecosystems among domestic small and medium enterprises.
- Modern stealth aero-engines utilize thrust-vectoring nozzles and radar-absorbent materials to minimize radar and infrared signatures.
- Establishing specialized gas turbine infrastructure enhances national self-reliance in aerospace power, naval propulsion, and industrial energy sectors.

Additional Knowledge:

- National Aero Propulsion Centre (Option B): A generic term used in academic policy discussions, but not the specific facility proposed under the 2026 Reliance-Rolls-Royce initiative.
- Integrated Fighter Manufacturing Complex (Option C): Refers generally to airframe manufacturing facilities such as HAL's fighter assembly divisions in Nashik and Bengaluru.
- Advanced Defence Engine Research Centre (Option D): Refers to public-sector R&D facilities rather than the commercial manufacturing complex planned under this defense partnership.

**Q4.** In May 2026, Union Minister Rajnath Singh laid the foundation stone for the Advanced Medium Combat Aircraft (AMCA) programme facility in which district of Andhra Pradesh?

- (a) Anakapalli
- (b) Sri Sathya Sai
- (c) Chittoor
- (d) Kurnool

**Ans.(b)**

**Sol.** The correct answer is (b) Sri Sathya Sai

Explanation:

- Union Minister Rajnath Singh laid the foundation stone for the AMCA programme facility at Puttaparthi in Sri Sathya Sai district of Andhra Pradesh in May 2026.
- The AMCA programme is India's indigenous 5th-generation stealth multirole fighter aircraft project.
- The facility is being developed by the Aeronautical Development Agency under the Defence Research and Development Organisation.
- The project aims to strengthen India's self-reliance in advanced defence aviation technology.
- A Core Integration and Flight Testing Centre worth Rs 2,000 crore was also announced to support AMCA development.

Information Booster:

- AMCA stands for Advanced Medium Combat Aircraft.
- The aircraft is designed for both the Indian Air Force (IAF) and Indian Navy (IN).
- AMCA is a twin-engine stealth fighter aircraft with multirole combat capability.
- The total investment for the AMCA programme facility is around Rs 15,000 crore.
- Bharat Dynamics Limited (BDL) also announced a Naval Systems Manufacturing Facility in Andhra Pradesh.

**Q5.** Rolls-Royce, which entered into the partnership with Reliance Industries, is headquartered in which country?

- (a) France
- (b) Germany
- (c) United Kingdom
- (d) United States

**Ans.(c)**

**Sol.** The correct answer is (C) United Kingdom

Explanation:

- Rolls-Royce Holdings plc, the world-renowned aerospace, defense, and power systems corporation that partnered with Reliance Industries, is headquartered in the United Kingdom.
- In August 2026, Reliance Industries and Rolls-Royce announced a major defense partnership to design, co-develop, and manufacture indigenous combat aircraft engines in India.
- Headquartered in London and operating major development hubs in Derby, UK, Rolls-Royce is one of the premier global manufacturers of aero-propulsion systems.
- The strategic partnership leverages Rolls-Royce's advanced gas turbine engine technology, single-crystal turbine blade metallurgy, and high-temperature material capabilities.
- The collaboration directly supports India's 'Make in India' and 'Aatmanirbhar Bharat' initiatives in high-technology defense manufacturing.
- Rolls-Royce has a long history of supplying propulsion systems to the Indian Armed Forces, including aero-engines for Jaguar fighter aircraft, Hawk trainers, and naval vessels.

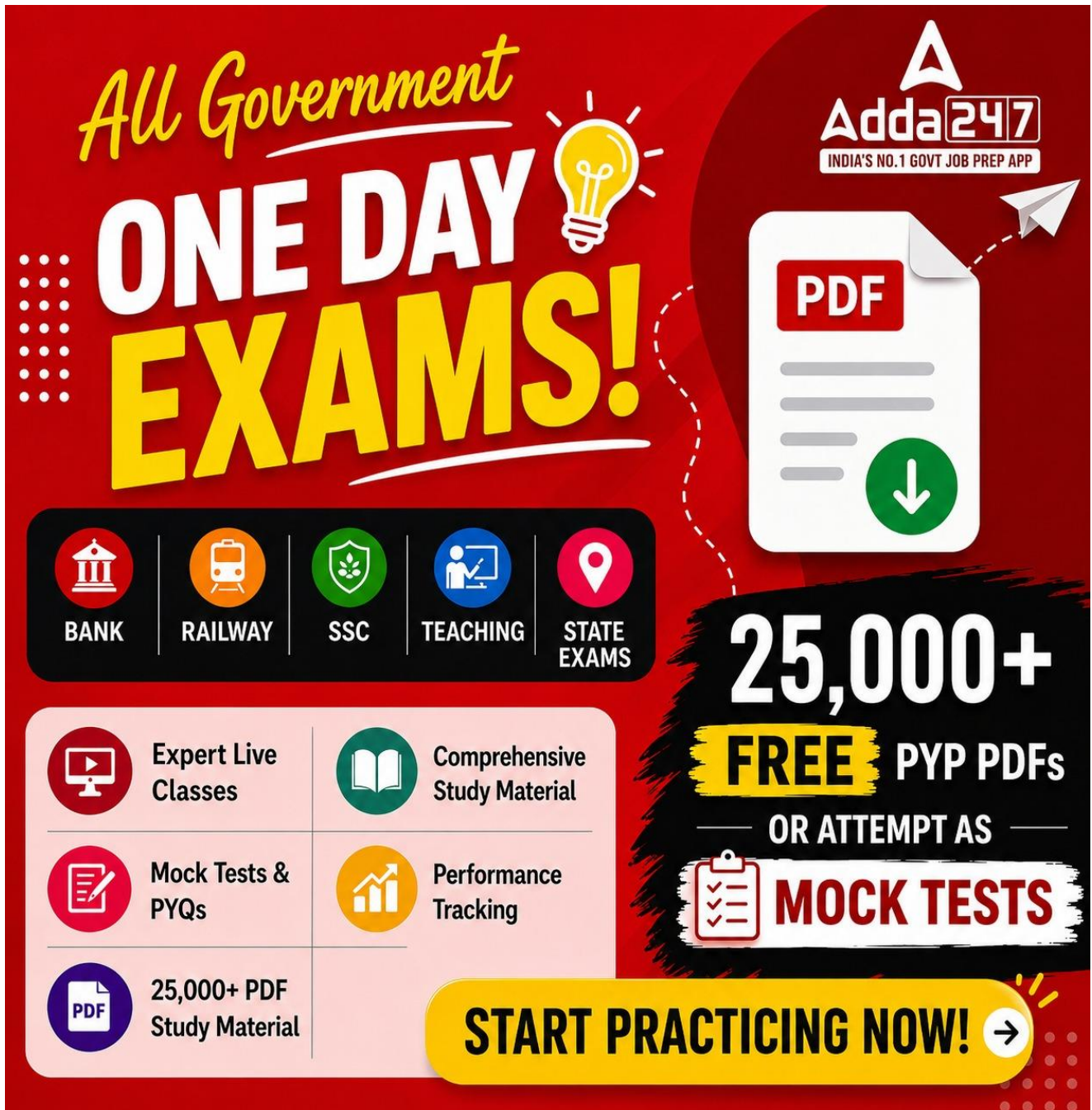
Information Booster:

- Rolls-Royce plc traces its roots back to 1906 when it was founded by Charles Rolls and Henry Royce in the United Kingdom.
- Rolls-Royce Motor Cars is owned by Germany's BMW AG, whereas Rolls-Royce Holdings plc is an independent British aerospace and defense multinational.
- Advanced jet engine manufacturing involves complex technologies such as single-crystal turbine blades capable of withstanding operational temperatures exceeding 1,600°C.
- India's defense sector relies on co-development and technology transfer models with global defense giants to achieve strategic autonomy in fighter aviation.

- The Defense Acquisition Procedure (DAP) promotes Strategic Partnership (SP) models between Indian private firms and global Original Equipment Manufacturers (OEMs).
- Rolls-Royce operates specialized Defence and Marine business units providing propulsion and power systems to over 100 armed forces worldwide.

Additional Knowledge:

- France (Option A): Home to Safran SA, a major French aerospace manufacturer co-developing helicopter engines and collaborating with DRDO on fighter jet engines.
- Germany (Option B): Home to MTU Aero Engines, a prominent German engine manufacturer participating in European fighter jet projects such as the Eurofighter Typhoon.
- United States (Option D): Home to leading defense propulsion manufacturers including General Electric (GE Aerospace) and Pratt & Whitney.



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