

Brazil's Tech Frontier: AI, 5G, and Quantum Leap Forward

Technology Brazil · Answer Key · 10 Questions

1. As of December 2024, how many municipalities in Brazil were eligible to receive Standalone (SA) 5G technology, marking a significant milestone in its expansion?

- A) 3,570
- B) 5,570**
- C) 4,100
- D) 2,800

2. In 2024, Brazil's installed power capacity saw its highest growth since 1997, with over 91% of the newly added capacity coming from which two renewable energy sources?

- A) Hydropower and Biomass
- B) Solar PV and Wind**
- C) Geothermal and Tidal
- D) Biomass and Thermal

3. Which Brazilian state-owned enterprise was approved in December 2024 to manage commercial launches from the Alcantara Launch Center, aiming to expand Brazil's role in the global space market?

- A) NAV Brasil
- B) Embraer
- C) Alada**
- D) AEB

4. In the realm of quantum computing, Venturus and QuEra Computing partnered in June 2024 to establish a Center of Excellence (CoE) for Quantum. Which region are they aiming to spearhead quantum innovation in?

- A) South America
- B) Latin America**
- C) South Asia
- D) Eastern Europe

5. According to a report by Kaspersky in May 2025, what was the primary danger posed by dark web threats targeting Brazilian organizations in 2024, with at least 105 organizations falling victim?

- A) Phishing attacks
- B) Ransomware attacks**
- C) Denial-of-service (DoS) attacks
- D) Cryptojacking

6. In 2024, Brazil unveiled a plan to invest USD 4 billion by 2028 to enhance economic competitiveness and promote responsible AI usage. Which sector is identified as a key driver for AI growth, alongside finance and energy?

- A) Tourism
- B) Manufacturing
- C) Agribusiness**
- D) Education

7. What is the main focus of the Brazilian Navy's new remotely piloted aircraft, the NAURU 500C (designated RQ-2), introduced in October 2024?

- A) Border patrol and surveillance
- B) Maritime search and rescue operations**
- C) Agricultural monitoring
- D) Disaster relief logistics

8. In December 2024, the Brazilian Senate approved Bill No. 2338/2023, which sets out rules for AI development and use. What approach does this bill take to regulating AI systems?

- A) A technology-neutral approach
- B) A risk-based approach**
- C) An industry-specific approach
- D) A voluntary compliance approach

9. As of May 2025, which Brazilian mobile operator had the most extensive 5G Standalone network subscription base, with approximately 19.2 million users?

- A) Claro Brasil
- B) TIM Brasil
- C) Vivo**
- D) Algar Telecom

10. In 2024, AI-driven climate forecasting models were implemented in Brazil's soybean production, leading to estimated yield improvements of 10-15% and significant reductions in resource use. What was the approximate water saving in irrigated areas due to optimized resource allocation?

- A) Up to 5%
- B) Over 18%**
- C) Around 10%
- D) Less than 2%