

South Korea's Tech Frontier: AI Laws, Quantum Leaps, and 6G Ambitions in 2024

Technology · Practice Test · 10 Questions

1. In late 2024, South Korea passed the 'Act on the Development of Artificial Intelligence and Establishment of Trust' (AI Basic Act). When is this act scheduled to take effect?

- A) January 2025
- B) July 2025
- C) January 2026
- D) December 2026

2. What is the primary goal of South Korea's national strategy for quantum technology by 2035, as outlined in recent plans?

- A) To become a leading global player in quantum science and technology.
- B) To solely focus on quantum cryptography for national security.
- C) To develop the world's first commercially viable quantum internet.
- D) To exclusively support academic research in quantum physics.

3. Which of the following South Korean companies unveiled cutting-edge battery safety innovations, including a next-generation wireless battery management system (BMS) in early 2025?

- A) Samsung SDI
- B) LG Energy Solution
- C) SK On
- D) Hyundai Motor Group

4. South Korea's 'Framework Act on the Development of Artificial Intelligence and the Establishment of Foundation for Reliability' (AI Act) passed the National Assembly in December 2024. What is a key requirement for businesses deploying 'high-impact' AI systems under this act?

- A) Mandatory AI ethics training for all employees.
- B) Pre-deployment impact assessments and risk evaluations.
- C) A minimum of 10,000 hours of AI usage data.
- D) Certification from international AI watchdog organizations.

5. In September 2024, South Korean rocket startup Innospace announced plans for commercial space missions in 2025 using its HANBIT-Nano and HANBIT-Micro rockets. What was the projected number of launches for 2025?

- A) Three
- B) Five
- C) Seven
- D) Ten

6. As of early 2025, South Korea's AI-driven drug development sector has been expanding rapidly. What has been its average annual growth rate since 2016?

- A) 10%
- B) 18%
- C) 28%
- D) 38%

7. Which South Korean government agency, established in May 2024 and often compared to NASA, announced its 2025 work plan to propel Korea to become one of the top five aerospace nations?

- A) Korea Aerospace Research Institute (KARI)
- B) Korea Astronomy and Space Science Institute (KASSI)
- C) Korea AeroSpace Administration (KASA)
- D) Ministry of Science and ICT (MSIT)

8. South Korea aims to be a global leader in 6G technology. What is the targeted commercialization year for 6G services in the country?

- A) 2028
- B) 2030
- C) 2032
- D) 2035

9. According to a report in March 2025, South Korea's new drug development pipeline accounts for what percentage of the global pipeline?

- A) 5%
- B) 10%
- C) 15%
- D) 20%

10. In late 2024, South Korea passed the AI Basic Act. As the second country after the European Union to adopt such a comprehensive AI regulatory framework, what is a primary objective of this act?

- A) To ban the use of generative AI for commercial purposes.
- B) To establish legal grounds for a national AI control tower and safety institute.
- C) To impose immediate heavy fines on all AI-related businesses.
- D) To limit AI research to only non-profit organizations.