

East Asia's Tech Surge: AI Chips, Quantum Leaps, and EV Innovations This W

Technology · Practice Test · 10 Questions

1. Which East Asian country announced a significant investment of approximately \$6.94 billion over the next three years to boost its AI chip research and development, including NPUs and high-bandwidth memory?

- A) Japan
- B) South Korea
- C) Taiwan
- D) China

2. What is Taiwan Semiconductor Manufacturing Company (TSMC) planning to operate in Arizona by 2029?

- A) A new research hub for quantum computing
- B) A large-scale solar power plant
- C) An advanced chip packaging facility
- D) A dedicated 5G network testing center

3. Japan has opened a new research hub in Tsukuba City focused on the commercialization of what type of advanced computing technology?

- A) Artificial Intelligence
- B) Quantum Computers
- C) Supercomputers
- D) Bio-informatics

4. Which country's government recently announced new regulations, taking effect in July, to manage AI anthropomorphic interaction services and prevent emotional dependence on AI?

- A) South Korea
- B) Japan
- C) Taiwan
- D) China

5. South Korean telecom operators are agreeing to share their 5G networks in remote areas to accelerate rollout. What is the primary goal of this initiative?

- A) To increase competition with MVNOs
- B) To boost the development of AI-driven services
- C) To accelerate 5G network expansion in rural locations
- D) To prepare for the upcoming 6G network

6. Chinese electric vehicle (EV) makers are increasingly focusing on developing what in-house to enhance autonomous driving and in-car entertainment systems?

- A) Advanced battery technology
- B) In-car chips
- C) Hydrogen fuel cells
- D) Self-driving software

7. South Korean AI chip startup DeepX has recently moved into mass production for which of its products?

- A) A new type of quantum processor
- B) A 5G base station
- C) An in-house neural processing unit (NPU)
- D) A large language model

8. In Japan, researchers are using quantum computers to search for what elusive component of the universe, thanks to their extreme sensitivity?

- A) Dark matter
- B) Exoplanets
- C) Neutrinos
- D) Gravitational waves

9. What new type of EV battery technology, using sodium as a key component instead of lithium, is seeing a breakthrough in mass production in China?

- A) Solid-state batteries
- B) Graphene batteries
- C) Sodium-ion batteries
- D) Flow batteries

10. Taiwan's financial regulator has eased investment caps, potentially freeing up billions of dollars for inflows into which major semiconductor company?

- A) Samsung
- B) SK Hynix
- C) TSMC
- D) Intel