

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

Technology · Answer Key · 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