

China's Cutting-Edge Science: Quantum Leaps, AI Frontiers, and Cosmic Discoveries

Science & Technology · Answer Key · 15 Questions

1. Which Chinese company recently launched its fourth-generation superconducting quantum computer, 'Origin Wukong-180', capable of processing 100-qubit-level computations and now accepting global tasks?

- A) Huawei Quantum Labs
- B) Tencent AI Research
- C) Origin Quantum**
- D) Baidu Quantum Systems

2. What significant advancement in artificial intelligence has China made, leading to a closing of the performance gap with the US in top AI models, according to a recent Stanford University report?

- A) Development of novel AI hardware entirely independent of foreign chipmakers
- B) The release of advanced AI models like DeepSeek V4, partially supported by domestic Huawei chips**
- C) A breakthrough in AI-driven drug discovery for Alzheimer's disease
- D) The creation of humanoid robots with unprecedented human-like cognitive abilities

3. China's Large High Altitude Air Shower Observatory (LHAASO) has detected ultra-high-energy gamma rays from which type of celestial object, suggesting it could be a PeVatron (a natural particle accelerator)?

- A) Pulsar wind nebula
- B) Active galactic nucleus
- C) Gamma-ray binary system**
- D) Supernova remnant

4. What new regulation, effective May 1, 2026, establishes a dual-track framework for biomedical innovations in China, allowing for the commercialization of certain advanced therapies without traditional drug registration?

- A) The 'Biomedical Innovation Acceleration Act'
- B) Order No. 818: Regulations on the Administration of Clinical Research and Clinical Translation and Application of Biomedical New Technologies**
- C) The 'National Medical Products Administration Reform Act'
- D) The 'China Advanced Therapies Commercialization Framework'

5. Researchers at the Shanghai Advanced Research Institute of the Chinese Academy of Sciences have developed a hydrogenation technology to transform carbon dioxide and hydrogen into what crucial component for jet fuel?

A) Synthetic kerosene

B) Long-chain hydrocarbons

C) Bio-alcohols

D) Methane precursors

6. What is the primary focus of the Chang'e-7 spacecraft, currently undergoing final preparations for a launch in the second half of 2026?

A) To explore the Martian south pole

B) To conduct environmental and resource surveys of the lunar south pole

C) To collect samples from a near-Earth asteroid

D) To establish a new Chinese space station in lunar orbit

7. According to recent reports, China's DARK Matter Particle Explorer (DAMPE) satellite, nicknamed Wukong, has provided key evidence for the existence of what near-Earth phenomenon?

A) A supermassive black hole

B) A natural 'super particle accelerator'

C) An uncharted exoplanet

D) A dark matter annihilation signal

8. China has unveiled a set of guidelines aimed at regulating and advancing the development of what type of AI, as part of its 'AI Plus' initiative?

A) Generative AI models

B) AI agents

C) Reinforcement learning algorithms

D) Computer vision systems

9. What is the name of the fourth-generation superconducting quantum computer launched by Origin Quantum, which features a single-core 180-qubit superconducting quantum chip?

A) Origin Shenlong

B) Origin Wukong-180

C) Origin Tianhe

D) Origin Beidou

10. China's 15th Five-Year Plan (2026-2030) elevates green hydrogen to a strategic priority. In 2026, what is a key application planned for China's first large-scale green hydrogen industrial parks?

- A) Powering electric vehicles in major cities
- B) Fueling commercial aircraft
- C) Powering heavy industry and chemicals**
- D) Providing domestic heating for residential areas

11. The 'AI Plus' initiative in China is seeing robotics integrated across economic and social sectors. According to the China Development Report 2025, what is the average increase in labor productivity attributed to the deployment of robots across 71 major sectors?

- A) 10.5%
- B) 15.2%
- C) 22.3%**
- D) 30.1%

12. The new gene-editing technology developed by Chinese scientists, named PCE (Programmable Chromosomal Engineering), enables manipulation of large DNA fragments. What is the largest chromosomal segment inversion size achieved in lab tests?

- A) 1.2 million base pairs
- B) 4 million base pairs
- C) 12 million base pairs**
- D) 18.8 million base pairs

13. China's annual general meeting for China Environmental Technology and Bioenergy Holdings Limited in May 2026 includes proposals for capital management. What percentage of the company's issued shares can the board be authorized to repurchase if approved?

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

14. Which international joint satellite project between China and Europe, aimed at studying the interaction between the solar wind and Earth's magnetosphere, is scheduled for launch in May 2026?

- A) Parker Solar Probe II
- B) Solar Orbiter Next
- C) Solar Wind Magnetosphere Ionosphere Link Explorer (SMILE)**
- D) Magnetospheric Multiscale Mission 2 (MMS2)

15. In May 2026, Pfizer CEO Albert Bourla noted that China's scientific capabilities have led to 8 of the top 10 global research institutions on the 2025 Nature Index being from which country?

- A) United States
- B) Germany
- C) Japan
- D) China**