

Japan's Tech Frontier: From Deep Sea Discoveries to AI Ethics & Lunar Ambitions

Science & Technology · Practice Test · 10 Questions

1. In June 2025, an expedition in Japan's deep waters led to the discovery of how many new species in the Nankai Trough and Shichiyo Seamount Chain?

- A) 18
- B) 28
- C) 38
- D) 48

2. Which Japanese university led a project to develop technologies for constructing lunar infrastructure using the Moon's regolith (soil)?

- A) Osaka University
- B) Kyoto University
- C) Tohoku University
- D) Tokyo University

3. Japan's SLIM spacecraft, which landed on the moon in January 2024, deployed a spherical rover named LEV-2. What was a key function of this rover?

- A) To drill for lunar ice
- B) To take panoramic photos of the lunar surface
- C) To transmit images of the landed spacecraft
- D) To collect soil samples for return to Earth

4. A recent study by Tohoku University suggests that combining rooftop solar panels with electric vehicle (EV) batteries could meet what percentage of Japan's electricity demand?

- A) 55%
- B) 65%
- C) 75%
- D) 85%

5. What is a significant trend in Japan's green technology market, according to recent reports?

- A) A decrease in the adoption of circular economy practices
- B) A focus on reducing recycling infrastructure
- C) Increasing integration of digital technologies like IoT and smart city solutions
- D) A declining interest in sustainable and eco-friendly products

6. Japan's approach to AI leadership is characterized by balancing innovation with what other crucial aspect?

- A) Aggressive market expansion
- B) Rapid disruption of traditional industries
- C) Preservation of cultural values
- D) Focus on international standardization

7. What archaeological discovery in Japan's Kofun tombs has recently reshaped understanding of elite craftsmanship from the fifth century?

- A) A collection of ancient samurai swords
- B) Gilt-bronze armor fittings decorated with a dragon motif
- C) Intact wooden scrolls detailing imperial decrees
- D) A large cache of gold coins

8. Which Japanese space mission was the world's first to successfully return samples from an asteroid to Earth?

- A) Hayabusa2
- B) Akatsuki
- C) IKAROS
- D) Hayabusa

9. Researchers at Osaka University are investigating new medical approaches for lifestyle diseases. What alternative to antibody-based medicines are they considering?

- A) Gene therapy
- B) Stem cell treatments
- C) Vaccines
- D) Nanotechnology

10. A recent study highlighted the impact of non-native species in Japanese waters, with some spreading northward due to what environmental factor?

- A) Ocean acidification
- B) Increased pollution
- C) Global warming
- D) Overfishing