

Australia's Tech Frontier: AI Ethics, Quantum Leaps, and Green Hydrogen Rev

Technology · Practice Test · 15 Questions

1. As of early 2026, what significant regulatory development has occurred concerning digital assets in Australia, aiming to integrate them into existing financial services laws?

- A) The establishment of a fully independent Digital Asset Authority (DAA).
- B) The Corporations Amendment (Digital Assets Framework) Act 2026, embedding digital assets into the Corporations Act 2001.
- C) A complete ban on all cryptocurrency exchanges and related services.
- D) The implementation of a new, separate regulatory regime solely for digital assets.

2. Australia's National Quantum Strategy, released in May 2023, aims to position the country as a global leader in quantum technologies by what year, with a focus on economic prosperity, inclusivity, and national security?

- A) 2035
- B) 2040
- C) 2030
- D) 2032

3. What specific initiative, announced in the Australian government's 2024-2025 budget, aims to support large-scale renewable hydrogen projects through production credits?

- A) The National Green Hydrogen Initiative
- B) The Hydrogen Production Tax Incentive
- C) The Hydrogen Headstart program
- D) The Clean Energy Transition Fund

4. According to a University of Melbourne & KPMG 2025 report, what percentage of Australians are willing to trust AI, placing Australia at or near the bottom globally in AI trust and optimism?

- A) Approximately 55%
- B) Approximately 36%
- C) Approximately 48%
- D) Approximately 62%

5. The Australian government's 2024-2025 budget allocated a substantial amount to boost the clean energy sector, including plans to invest a specific sum in hydrogen production and technology over the next decade. What is this figure?

- A) A\$5 billion
- B) A\$6.5 billion
- C) A\$8 billion
- D) A\$10 billion

6. In April 2024, Australia signed a significant deal worth almost a billion dollars with which company to build the world's first commercially useful quantum computer in Brisbane?

- A) IBM
- B) Google Quantum AI
- C) PsiQuantum
- D) Microsoft Azure Quantum

7. Which NSW-based firm, in December 2016, facilitated a world-first by connecting its cloud-based transaction system to a private blockchain network to settle a physical commodity purchase, significantly impacting agricultural trade?

- A) AgriChain
- B) FarmTrace
- C) AgriDigital
- D) CropConnect

8. As of early 2026, Australia's top financial regulator, ASIC, has identified which of the following as key issues standing on the 'regulatory perimeter,' creating gaps and potential uncertainty in the financial services landscape?

- A) Automated customer service chatbots and AI-driven marketing
- B) Digital assets, AI-driven financial services, and payments
- C) Peer-to-peer lending platforms and digital identity verification
- D) Online fraud detection systems and cybersecurity protocols

9. The Australian government has allocated \$12.7 million AUD to Stage 2 of the Critical Technologies Challenge Program (CTCP) to industrialize quantum prototypes. Approximately what percentage of this funding is dedicated to supporting projects transitioning from feasibility studies to proof-of-concept demonstrations?

- A) 25%
- B) 50%
- C) 75%
- D) 100%

10. In terms of AI trust, a 2025 report indicated that Australians want stronger guardrails and clearer accountability. What percentage of Australians support the regulation of AI?

- A) Approximately 45%
- B) Approximately 60%
- C) Approximately 77%
- D) Approximately 90%

11. Australia's National AI Plan, slated for December 2025, aims to manage AI risks through existing legal frameworks rather than a standalone AI Act. What is a key goal of this plan concerning the economic impact of AI?

- A) To strictly limit AI adoption in government services
- B) To capture the economic opportunity of AI through infrastructure, research, and investment
- C) To prioritize AI development solely in the defense sector
- D) To impose a moratorium on all new AI research and development

12. What is the projected value of Australia's payments market by 2030, according to Mordor Intelligence reports, indicating a significant annual growth rate?

- A) USD 1.07 trillion
- B) USD 2.29 trillion
- C) USD 1.5 trillion
- D) USD 3.0 trillion

13. Which Australian startup won first place in a dynamic round of presentations for its innovative approach to powering AI with renewable energy, managing AI workloads based on real-time renewable energy availability?

- A) Project GreenAI
- B) Renewable Compute Solutions
- C) Project Ohm
- D) EcoAI Labs

14. The Australian government's National Environmental Protection Measures (NEPM), strengthened in 2023, mandate the deployment of advanced monitoring technologies, including AI-powered systems, for which key environmental management areas?

- A) Biodiversity and land use
- B) Air and water quality
- C) Waste management and recycling
- D) Climate change and carbon emissions

15. As of May 2024, Australia announced plans to invest A\$8 billion in hydrogen production and technology over the next 10 years. This investment is part of a broader strategy to boost the country's clean energy sector and achieve specific emissions reduction targets. By what year does Australia aim to achieve net zero emissions?

- A) 2040
- B) 2050
- C) 2060
- D) 2035