

Australia's Scientific Frontiers: From Deep Reefs to Distant Galaxies

Australia Science · Answer Key · 8 Questions

1. What significant marine life discovery was made during a comprehensive deep-sea study of the Great Barrier Reef and Coral Sea Marine Parks?

- A) Discovery of a new species of giant squid.
- B) Identification of five undescribed species of black corals and sponges, and the first Australian observation of an extremely rare fish.**
- C) Finding of a previously unknown species of bioluminescent jellyfish.
- D) Documenting the migration patterns of whales through sonar mapping.

2. Which Australian astronomical instrument, located in the outback, captured a new view of the Milky Way's central region and discovered new supernova remnants?

- A) The Parkes Observatory
- B) The Australian Square Kilometre Array Pathfinder (ASKAP)
- C) The Murchison Widefield Array (MWA)**
- D) The Siding Spring Observatory

3. What unusual geological formations, found near Melbourne, are now believed to have been created by Aboriginal communities rather than natural processes?

- A) Geyser fields
- B) Concentric circular patterns**
- C) Sandstone buttes
- D) Volcanic craters

4. Researchers at the University of Queensland have been developing a promising vaccine for which mosquito-borne viral disease?

- A) Zika virus
- B) West Nile virus
- C) Dengue fever**
- D) Chikungunya virus

5. A massive detached coral reef, the first discovered in over 120 years, was found in which iconic Australian location?

- A) Ningaloo Reef
- B) The Great Barrier Reef**
- C) Lord Howe Island Marine Park
- D) Kangaroo Island Marine Park

6. Australian startups in 2025 saw significant funding, with Artificial Intelligence (AI) being a major driver. Approximately what percentage of total funding went to companies utilizing AI?

- A) 35%
- B) 61%**
- C) 15%
- D) 80%

7. What ancient Indigenous knowledge system is Australia increasingly seeking to integrate into its national science and research priorities?

- A) Dreamtime storytelling
- B) Oral traditions and land management practices**
- C) Barter systems
- D) Celestial navigation

8. What new technology is being developed in Adelaide to make X-ray machines significantly lighter and more portable, with applications in healthcare, defence, and security?

- A) Quantum computing chips
- B) Carbon nanotube-based emitters**
- C) Advanced drone technology
- D) 3D-printed prosthetics