

Australia & South Korea in Artemis II, Galactic Discoveries, and Startup Fundi

Space Exploration · Answer Key · 12 Questions

1. What critical role does Australia play in NASA's Artemis II mission, which recently orbited the Moon?

- A) Providing the launch vehicle for the Orion spacecraft
- B) Tracking the spacecraft and maintaining communications**
- C) Designing the astronaut's spacesuits
- D) Developing the primary propulsion system for Orion

2. Which South Korean startup recently raised \$24 million following the maiden launch of its UNA EXPRESS-I rocket, with the next goal being orbit?

- A) Innospace
- B) Nara Space
- C) Unastella**
- D) CONTEC

3. Australian scientists recently played a key role in producing a detailed image of which part of the Milky Way galaxy?

- A) The outer spiral arms
- B) The galactic core**
- C) The halo region
- D) The Magellanic Clouds

4. South Korea is aiming to land a civilian-led rover on the Moon by which year, potentially moving up its previously planned 2032 lunar landing?

- A) 2028
- B) 2030**
- C) 2035
- D) 2040

5. The Australian National University (ANU) is collaborating with NASA on the Artemis II mission to demonstrate what type of advanced communication technology?

- A) Radio wave communication
- B) Laser (optical) communications**
- C) Quantum entanglement communication
- D) Infrared signal transmission

6. Which South Korean space agency is leading efforts to establish a lunar base, with a goal for around 20 years from now?

- A) Korea Aerospace Research Institute (KARI)
- B) Korea Astronomy and Space Science Institute (KASI)
- C) Korea Advanced Institute of Science and Technology (KAIST)
- D) Korea AeroSpace Administration (KASA)**

7. Australia's CSIRO and the SKA Observatory have used a powerful radio telescope to map what, providing clues about galaxy formation?

- A) Star formation rates
- B) Cosmic microwave background radiation
- C) Galactic magnetic fields**
- D) The distribution of dark matter

8. South Korea and NASA are collaborating on joint research for deep space exploration, focusing on the Sun-Earth Lagrange point 4 (L4) and what else?

- A) Asteroid mining techniques
- B) Deep space optical communication**
- C) Interstellar travel propulsion
- D) Exoplanet atmospheric analysis

9. Which Australian space startup has received significant funding, including a recent \$14.2 million extension to its Series E, and is developing the Eris rocket?

- A) Fleet Space Technologies
- B) Gilmour Space Technologies**
- C) Esper Satellite Imagery
- D) QL Space

10. South Korean astronomers, in collaboration with international teams, have discovered a Saturn-class solo planet (a rogue planet) approximately how far from Earth?

- A) 1,000 light years
- B) 10,000 light years**
- C) 100,000 light years
- D) 1 million light years

11. Australia's role in supporting NASA's space exploration programs dates back to which historic lunar program?

- A) Project Mercury
- B) The Gemini Program
- C) The Apollo Program**
- D) The Skylab Program

12. Which South Korean consumer electronics company is planning to manufacture space infrastructure and components, including examining rocket launch pad construction?

- A) LG
- B) SK Hynix
- C) Samsung**
- D) Hyundai