

Artemis II Mission Reference Guide

Aerospace Engineering · Answer Key · 15 Questions

1. How many astronauts are scheduled to travel on the Artemis II mission?

- A) 2
- B) 3
- C) 4**
- D) 5

2. Which NASA facility serves as the primary hub for Exploration Ground Systems?

- A) Marshall Space Flight Center
- B) Kennedy Space Center**
- C) Johnson Space Center
- D) Armstrong Flight Research Center

3. What is the primary function of the Orion launch abort system?

- A) To provide extra fuel for deep space
- B) To pull the crew to safety in an emergency**
- C) To stabilize the rocket during ascent
- D) To deploy CubeSats

4. What is the purpose of the ARChER research on Artemis II?

- A) To study lunar rocks
- B) To study crew health and readiness**
- C) To test rocket engine fuel
- D) To map the lunar surface

5. Which rocket is used to launch the Orion spacecraft for the Artemis II mission?

- A) Saturn V
- B) Delta IV
- C) Space Launch System (SLS)**
- D) Falcon 9

6. Where is the SLS core stage manufactured?

- A) Kennedy Space Center
- B) Michoud Assembly Facility**
- C) Stennis Space Center
- D) Marshall Space Flight Center

7. What is the main purpose of the sound suppression system at the launch pad?

- A) To cool the rocket engines
- B) To prevent forest fires
- C) To dampen sound and vibration during liftoff**
- D) To provide drinking water for the crew

8. How long is the Artemis II mission expected to last?

- A) 10 days**
- B) 25 days
- C) 6 months
- D) 1 year

9. Which component of Orion is responsible for providing power, propulsion, and thermal control?

- A) Crew Module
- B) Launch Abort System
- C) European Service Module**
- D) Pressure Vessel

10. What are the shoe-box-sized technology demonstrations hitching a ride on Artemis II called?

- A) Satellites
- B) CubeSats**
- C) Probes
- D) Rovers

11. What material is used for the Orion heat shield to protect the crew from re-entry heat?

- A) Aluminum
- B) Avcoat**
- C) Titanium
- D) Silica

12. Which facility is responsible for hot-fire testing of the RS-25 engines?

- A) Michoud Assembly Facility
- B) Stennis Space Center**
- C) Kennedy Space Center
- D) Ames Research Center

13. What is the name of the vehicle that transports the SLS and mobile launcher to the pad?

A) Crawler-transporter

B) Tugboat

C) Train

D) Space Shuttle

14. What is the primary purpose of the AVATAR organ-on-a-chip experiment?

A) To grow food in space

B) To measure human response to deep space stressors

C) To test new solar panels

D) To study microgravity on plants

15. Which NASA center manages the SLS Program Office?

A) Marshall Space Flight Center

B) Johnson Space Center

C) Kennedy Space Center

D) Goddard Space Flight Center