

Artemis II Mission Reference Guide

Aerospace Engineering · Answer Key · 20 Questions

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

- A) 5 days
- B) 10 days**
- C) 25 days
- D) 60 days

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

- A) Testing fuel efficiency
- B) Studying human health and performance**
- C) Mapping lunar craters
- D) Repairing the solar arrays

3. Which facility is responsible for manufacturing the SLS core stage?

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

4. What is the main function of the Launch Abort System (LAS)?

- A) To provide extra fuel for the Moon journey
- B) To carry scientific payloads
- C) To pull the crew module to safety in an emergency**
- D) To stabilize the rocket during landing

5. How many astronauts are scheduled to fly on the Artemis II mission?

- A) 2
- B) 3
- C) 4**
- D) 6

6. What is the name of the new liquid hydrogen tank at Launch Pad 39B?

- A) The Saturn Sphere
- B) The Cryo-Tank
- C) The World's Largest LH2 Sphere**
- D) The Orion Reservoir

7. Which company is the lead contractor for the Orion spacecraft?

- A) Boeing
- B) Lockheed Martin**
- C) Northrop Grumman
- D) Amentum

8. What does the crew module uprighting system do?

- A) Helps the crew sleep
- B) Flips the Orion capsule right-side up after splashdown**
- C) Cleans the cabin air
- D) Provides power for the radio

9. What material is used for the Orion heat shield blocks?

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

10. Where will the Orion spacecraft splash down at the end of the mission?

- A) Atlantic Ocean
- B) Indian Ocean
- C) Pacific Ocean**
- D) Gulf of Mexico

11. What type of communications technology will be demonstrated on Artemis II?

- A) Radio waves
- B) Laser communications**
- C) Sound waves
- D) Satellite phone signals

12. Which agency provides the European Service Module for Orion?

- A) CSA
- B) ESA**
- C) JAXA
- D) NASA

13. What is the primary function of the crawler-transporter?

- A) To launch the rocket
- B) To carry the rocket and mobile launcher to the pad**
- C) To manufacture rocket parts
- D) To test the engines

14. What does the RS-25 engine use for fuel?

A) Liquid hydrogen and liquid oxygen

B) Solid propellant

C) Hydrazine

D) Kerosene

15. How many main parachutes does Orion use for landing?

A) 1

B) 3

C) 5

D) 11

16. What is the name of the emergency egress system terminus?

A) The White Room

B) The Pad Terminus

C) The Launch Control Center

D) The Safe Haven

17. Which facility acts as the 'brain' of the rocket during launch?

A) Vehicle Assembly Building

B) Launch Control Center

C) Stennis Space Center

D) Booster Fabrication Facility

18. What is the maximum speed Orion reaches during re-entry?

A) Mach 5

B) Mach 10

C) Mach 20

D) Mach 30

19. What is the purpose of the Flywheel Exercise Device?

A) To generate electricity

B) To prevent muscle and bone atrophy

C) To stabilize the spacecraft

D) To filter water

20. What is the name of the barge used to transport the SLS core stage?

A) Poseidon

B) Orion

C) Pegasus

D) Delta Mariner