

Foundations of Cosmology

Cosmology · Answer Key · 12 Questions

1. Who was the first scientist to demonstrate that the universe is expanding?

A) Edwin Hubble

- B) Isaac Newton
- C) Galileo Galilei
- D) Albert Einstein

2. What is the name of the radiation left over from the Big Bang, discovered in 1964?

A) Cosmic Microwave Background

- B) Solar Wind
- C) Dark Matter Radiation
- D) Stellar Flare

3. Which space telescope was launched in 1990 to capture high-resolution images of distant galaxies?

A) Hubble Space Telescope

- B) James Webb Telescope
- C) Kepler Space Telescope
- D) Spitzer Space Telescope

4. What is the name of the theoretical event that marks the origin of the universe?

A) The Big Bang

- B) The Great Expansion
- C) The Stellar Ignition
- D) The Cosmic Birth

5. Which astronomer first used a telescope to discover moons orbiting Jupiter, challenging the idea that everything revolves around Earth?

A) Galileo Galilei

- B) Nicolaus Copernicus
- C) Johannes Kepler
- D) Tycho Brahe

6. What is the most abundant element in the universe, formed shortly after the Big Bang?

A) Hydrogen

- B) Oxygen
- C) Carbon
- D) Helium

7. Which scientist proposed the heliocentric model, placing the Sun at the center of the solar system?

A) Nicolaus Copernicus

B) Claudius Ptolemy

C) Aristotle

D) Isaac Newton

8. What invisible substance is believed to make up most of the matter in the universe?

A) Dark Matter

B) Black Holes

C) Cosmic Dust

D) Neutrinos

9. What is the term for a massive explosion that occurs at the end of a star's life cycle?

A) Supernova

B) Nebula

C) White Dwarf

D) Red Giant

10. Which mission was the first to successfully land humans on the Moon?

A) Apollo 11

B) Voyager 1

C) Gemini 8

D) Mercury-Atlas 6

11. What device allowed early astronomers to track the positions of stars and planets for the first time?

A) Astrolabe

B) Compass

C) Chronometer

D) Microscope

12. Which mission was the first to send a human-made object into interstellar space?

A) Voyager 1

B) Pioneer 10

C) Apollo 13

D) Cassini