

Cosmology Foundations

Cosmology · Answer Key · 12 Questions

1. Which of these is the term for a massive system that contains billions of stars, gas, and dust held together by gravity?

- A) Galaxy**
- B) Planet
- C) Asteroid
- D) Moon

2. What is the name of the spiral galaxy that contains our Solar System?

- A) Andromeda
- B) Milky Way**
- C) Triangulum
- D) Sombrero

3. Which force is primarily responsible for holding stars and planets together in their orbits?

- A) Magnetism
- B) Electricity
- C) Gravity**
- D) Friction

4. What is a star mostly made of in terms of its chemical composition?

- A) Hydrogen and Helium**
- B) Oxygen and Nitrogen
- C) Iron and Nickel
- D) Carbon and Silicon

5. What do astronomers call the center point around which our planets orbit?

- A) The Moon
- B) The Sun**
- C) The Earth
- D) The North Star

6. Which of these celestial objects is a giant ball of burning gas that produces its own light?

- A) Planet
- B) Moon
- C) Star**
- D) Comet

7. How long does it take for the Earth to complete one full orbit around the Sun?

- A) 24 hours
- B) 30 days
- C) 12 months**
- D) 10 years

8. What is the primary difference between a planet and a star?

- A) Size only
- B) Color only
- C) Stars produce light while planets reflect it**
- D) Planets are always larger

9. What term describes the collection of all space, time, matter, and energy?

- A) The Galaxy
- B) The Universe**
- C) The Solar System
- D) The Atmosphere

10. Which unit of measurement is used to measure the vast distances between stars and galaxies?

- A) Kilometers
- B) Light-years**
- C) Miles
- D) Centimeters

11. What is a 'lunar eclipse' caused by?

- A) The Sun passing between Earth and the Moon
- B) The Moon passing between Earth and the Sun
- C) The Earth passing between the Sun and the Moon**
- D) The Moon stopping its rotation

12. Which of the following is considered a 'natural satellite' of the Earth?

- A) The International Space Station
- B) The Moon**
- C) Mars
- D) An Asteroid