

Cosmology for Young Explorers

Cosmology · Answer Key · 15 Questions

1. What is the name of the theory that describes the rapid expansion of the universe from a hot, dense point?

- A) The Big Bang Theory**
- B) The Steady State Theory
- C) The Solar System Model
- D) The Galactic Shift Theory

2. Which galaxy is home to our Solar System?

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

3. What is the most abundant element in the universe?

- A) Oxygen
- B) Carbon
- C) Hydrogen**
- D) Iron

4. What invisible substance is thought to make up about 27% of the universe and provides extra gravity?

- A) Dark Energy
- B) Dark Matter**
- C) Stardust
- D) Plasma

5. What is the force that pulls objects with mass toward each other?

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

6. What do scientists call the age of the universe?

- A) 4.5 billion years
- B) 13.8 billion years**
- C) 100 million years
- D) 1 trillion years

7. What instrument is best known for observing distant galaxies and the early universe?

- A) Microscope
- B) Thermometer
- C) Space Telescope**
- D) Compass

8. What mysterious force is causing the expansion of the universe to accelerate?

- A) Dark Energy**
- B) Solar Wind
- C) Black Holes
- D) Nuclear Fusion

9. What is a massive collection of gas, dust, and billions of stars called?

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

10. What is the name for a region in space where gravity is so strong that not even light can escape?

- A) Supernova
- B) White Dwarf
- C) Black Hole**
- D) Pulsar

11. What type of star is our Sun?

- A) Red Giant
- B) White Dwarf
- C) Yellow Dwarf**
- D) Neutron Star

12. What do astronomers call the cloud of gas and dust where new stars are born?

- A) Nebula**
- B) Comet
- C) Asteroid Belt
- D) Moon

13. What is the closest star system to our Solar System?

- A) Sirius
- B) Alpha Centauri**
- C) Betelgeuse
- D) Polaris

14. Which of these is the term for the study of the entire universe?

- A) Geology
- B) Biology
- C) Cosmology**
- D) Meteorology

15. What do we call the leftover radiation from the early universe that can be detected everywhere in space?

- A) Cosmic Microwave Background**
- B) Solar Flare
- C) Auroral Light
- D) Radio Waves