

Cosmology for Young Explorers

Cosmology · Answer Key · 18 Questions

1. What is the name of the theory that describes the beginning of the universe?

A) The Big Bang

B) The Solar Theory

C) The Galactic Expansion

D) The Planetary Formation

2. Which galaxy is home to our Solar System?

A) Andromeda

B) The Milky Way

C) Sombrero

D) Whirlpool

3. What is the center of our Solar System?

A) The Earth

B) The Moon

C) The Sun

D) Jupiter

4. What force keeps planets in orbit around the Sun?

A) Magnetism

B) Friction

C) Gravity

D) Electricity

5. What is an extremely dense object in space with gravity so strong that not even light can escape?

A) A Black Hole

B) A Supernova

C) A Nebula

D) A Dwarf Star

6. Which planet is known as the 'Red Planet'?

A) Venus

B) Mars

C) Saturn

D) Neptune

7. What are huge clouds of gas and dust in space where stars are born?

- A) Asteroids
- B) Comets
- C) Nebulae**
- D) Moons

8. Approximately how old do scientists estimate the universe to be?

- A) 1.4 billion years
- B) 13.8 billion years**
- C) 100 million years
- D) 500 billion years

9. What do we call a large collection of stars, gas, and dust held together by gravity?

- A) A Planet
- B) A Galaxy**
- C) A Constellation
- D) An Orbit

10. What is the largest planet in our Solar System?

- A) Earth
- B) Saturn
- C) Jupiter**
- D) Mars

11. Which celestial body orbits the Earth?

- A) The Sun
- B) The Moon**
- C) Mars
- D) Venus

12. What is a star that has exploded at the end of its life called?

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

13. Which planet is famous for its large, beautiful rings?

- A) Mercury
- B) Uranus
- C) Saturn**
- D) Mars

14. What is the study of the origin and development of the universe called?

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

15. What do we call a path that a planet takes around the Sun?

- A) Rotation
- B) Orbit**
- C) Spin
- D) Axis

16. Which is the closest star to Earth?

- A) Proxima Centauri
- B) Sirius
- C) The Sun**
- D) Polaris

17. What type of star is our Sun?

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

18. What is the invisible substance that makes up most of the matter in the universe?

- A) Dark Matter**
- B) Stardust
- C) Gas Clouds
- D) Space Debris