

Astrophysics Basics

Astrophysics · Practice Test · 18 Questions

1. What is the closest star to Earth?

- A) Proxima Centauri
- B) The Sun
- C) Sirius
- D) Betelgeuse

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

- A) Venus
- B) Jupiter
- C) Mars
- D) Saturn

3. What is the center of our solar system?

- A) The Earth
- B) The Moon
- C) The Sun
- D) The Milky Way

4. Which galaxy is home to the Earth?

- A) Andromeda
- B) Milky Way
- C) Triangulum
- D) Whirlpool

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

- A) Gravity
- B) Magnetism
- C) Friction
- D) Air pressure

6. Which planet has the most prominent ring system?

- A) Mars
- B) Jupiter
- C) Saturn
- D) Neptune

7. What is the name of the natural satellite that orbits the Earth?

- A) Phobos
- B) Titan
- C) The Moon
- D) Europa

8. Which planet is the largest in our solar system?

- A) Earth
- B) Jupiter
- C) Saturn
- D) Uranus

9. What do we call a giant explosion that occurs at the end of a massive star's life?

- A) Supernova
- B) Nebula
- C) Black hole
- D) White dwarf

10. What is the hottest planet in our solar system?

- A) Mercury
- B) Mars
- C) Venus
- D) Jupiter

11. Approximately how long does it take for light from the Sun to reach Earth?

- A) 8 seconds
- B) 8 minutes
- C) 8 hours
- D) 8 days

12. What is the primary gas that makes up the Sun?

- A) Oxygen
- B) Nitrogen
- C) Hydrogen
- D) Carbon dioxide

13. Which planet is known for its blue color due to methane in its atmosphere?

- A) Venus
- B) Neptune
- C) Mercury
- D) Mars

14. What term describes a region of space where gravity is so strong that even light cannot escape?

- A) Asteroid belt
- B) Black hole
- C) Comet
- D) Galaxy

15. What are stars mostly composed of?

- A) Rock
- B) Ice
- C) Gas
- D) Liquid metal

16. Which celestial body is currently classified as a dwarf planet?

- A) Pluto
- B) Jupiter
- C) Saturn
- D) Mercury

17. What is the term for a collection of stars, gas, and dust held together by gravity?

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

18. What phase of the moon occurs when the side facing Earth is fully illuminated?

- A) New moon
- B) Full moon
- C) Crescent moon
- D) Half moon