

Cosmic Physics Fundamentals

Physics · Answer Key · 8 Questions

1. Which planet in our solar system has the most extensive and visible ring system?

- A) Jupiter
- B) Saturn**
- C) Uranus
- D) Neptune

2. What is the primary gas that makes up the majority of the Sun's mass?

- A) Helium
- B) Oxygen
- C) Hydrogen**
- D) Nitrogen

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

- A) 8 minutes**
- B) 1 hour
- C) 24 hours
- D) 30 seconds

4. Which force is primarily responsible for the formation of stars and galaxies?

- A) Magnetism
- B) Gravity**
- C) Nuclear fission
- D) Static electricity

5. What is the name of the boundary around a black hole from which nothing, not even light, can escape?

- A) Singularity
- B) Event horizon**
- C) Accretion disk
- D) Photon sphere

6. Which planet is known as the 'Red Planet' due to the iron oxide on its surface?

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

7. What is the most distant planet from the Sun in our solar system?

- A) Uranus
- B) Neptune**
- C) Saturn
- D) Pluto

8. Which element is primarily formed during the core fusion process inside main-sequence stars like our Sun?

- A) Helium**
- B) Iron
- C) Uranium
- D) Gold