

# Astrophysics in Central Asia

Astrophysics · Answer Key · 8 Questions

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**1. Which famous 15th-century Central Asian astronomer built a massive observatory in Samarkand, Uzbekistan?**

- A) Ulugh Beg**
- B) Al-Khwarizmi
- C) Ibn Sina
- D) Avicenna

**2. In the context of stellar evolution, what is the primary fuel source for a Main Sequence star like our Sun?**

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

**3. Which Central Asian country is home to the Assy Observatory, located at an altitude of 2,750 meters in the Trans-Ili Alatau mountains?**

- A) Turkmenistan
- B) Kazakhstan**
- C) Kyrgyzstan
- D) Tajikistan

**4. What is the term for the distance light travels in one vacuum year, used to measure interstellar distances?**

- A) Astronomical Unit
- B) Parsec
- C) Light-year**
- D) Kilometer

**5. What is the most common element found in the universe?**

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

**6. The Ulugh Beg Observatory in Samarkand was famous for its giant instrument used to measure the positions of stars and planets. What was this instrument called?**

**A) Sextant**

B) Foucault pendulum

C) Astrolabe

D) Meridian quadrant

**7. Which force is responsible for holding galaxies together and causing stars to collapse from interstellar clouds?**

A) Electromagnetism

**B) Gravity**

C) Nuclear force

D) Friction

**8. What is the name of the theory that describes the origin of the universe as an expansion from a hot, dense state?**

A) Steady State Theory

**B) Big Bang Theory**

C) Nebular Hypothesis

D) Quantum Tunneling