

# Astronomy Practice Test Questions and Answers

## 1. What is dark matter?

- A) An unknown form of matter that doesn't emit or absorb light but exerts gravitational effects, comprising about 27% of the universe
- B) Matter that exists only in darkness
- C) Black holes collectively
- D) Antimatter in deep space

## 2. What is a supernova?

- A) A catastrophic explosion marking the death of a massive star, briefly outshining an entire galaxy
- B) A star that slowly fades away
- C) A new star being born
- D) A cluster of very bright stars

## 3. What is tidal locking?

- A) When a moon's rotational period equals its orbital period, keeping one face toward the planet
- B) When ocean tides synchronize with a moon's orbital period exactly
- C) When two bodies orbit in perfect synchrony around a common center
- D) When gravity slows a moon's orbit until it matches the planet's rotation

## 4. What is a neutron star?

- A) An extremely dense remnant of a massive star's core after a supernova explosion
- B) A star made entirely of neutrons from its birth
- C) A type of dark matter
- D) A star that emits only neutrons instead of light

**Answers: 1-A 2-A 3-A 4-A**

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