

ASTRONOMY QUIZ NUMBER 1

1. You read in an astronomy atlas that an object has a negative right ascension.
You immediately conclude that
 - A) the object is located in the Southern Sky.
 - B) the object is located in the Northern Sky.
 - C) it is incorrect since right ascension values cannot be negative.

2. Which of the following is a general difference between a planet and a star?
 - A) Planets are bigger than stars.
 - B) Planets are hotter than stars.
 - C) Planets are heavier than stars.
 - D) Planets move between constellations.

ASTRONOMY QUIZ NUMBER 2

1. Which of the following statements does NOT use the term *light-year* correctly?

- A) It's about 4 light-years from here to Alpha centauri.
- B) It will take me light-years to complete this homework assignment.
- C) A light-year is about 10 trillion kilometers.
- D) The Milky Way Galaxy is about 100,000 light-years in diameter.

2. An astronomical unit (AU) is

- A) any very large unit, such as a light-year.
- B) the average distance between the Sun and Earth.
- C) the average distance between the Sun and Pluto.
- D) the average distance between any two planets.

ASTRONOMY QUIZ NUMBER 3

1. You are standing on Earth's equator. Which way is Polaris, the North Star?
 - A) directly overhead
 - B) on the northern horizon
 - C) The answer depends on whether it's summer or winter.

2. By locating the North Celestial Pole (NCP) in the sky, how can you determine your latitude?
 - A) The altitude of the NCP is the same as your latitude.
 - B) The altitude of the NCP is your angular distance from the North Pole.
 - C) The direction of the NCP is the same as your direction.

ASTRONOMY QUIZ NUMBER 4

1. The great contribution of Tycho Brahe was to
 - A) observe planetary positions with sufficient accuracy so that Kepler could later use the data to discover the laws of planetary motion.
 - B) discover four moons orbiting Jupiter, thereby lending strong support to the idea that Earth is not the center of the Universe.
 - C) offer the first detailed model of a Sun-centered solar system, thereby beginning the process of overturning the Earth-centered model of the Greeks.
 - D) discover that planets orbit the Sun in elliptical orbits with varying speeds.

2. Which of the following was NOT observed by Galileo?
 - A) moons orbiting Saturn
 - B) mountains and valleys on the Moon
 - C) moons orbiting Jupiter
 - D) phases of Venus

ASTRONOMY QUIZ NUMBER 5

1. Which of the following planets was predicted to exist?

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

2. Who published "The Universal Theory of Gravitation"?

- A) Kepler
- B) Galileo
- C) Newton
- D) Einstein

ASTRONOMY QUIZ NUMBER 6

1. What quantities does ANGULAR MOMENTUM depend upon?

- A) mass and velocity
- B) mass, velocity, and radius
- C) force and radius
- D) force, velocity, and radius

2. RADIATIVE energy is

- A) energy carried by light.
- B) heat energy.
- C) energy from nuclear power plants.
- D) energy of motion.

ASTRONOMY QUIZ NUMBER 7

1. The wavelength of a wave is
 - A) how strong the wave is.
 - B) the distance between a peak of the wave and the next trough.
 - C) the distance between two adjacent peaks of the wave.
 - D) equal to the speed of the wave times the wave's frequency.

2. From the shortest to longest wavelength, which of the following correctly orders the different parts of the light (electromagnetic) spectrum?
 - A) gamma rays, X rays, ultraviolet, visible light, infrared, radio
 - B) infrared, visible light, ultraviolet, X rays, gamma rays
 - C) radio, infrared, visible light, ultraviolet, X rays, gamma rays
 - D) gamma rays, X rays, visible light, ultraviolet, infrared, radio

ASTRONOMY QUIZ NUMBER 8

1. If we say that a material is OPAQUE to ultraviolet light, we mean that it

- A) absorbs ultraviolet light.
- B) emits ultraviolet light.
- C) transmits ultraviolet light.
- D) reflects ultraviolet light.

2. According to the laws of thermal radiation, hotter objects emit light with

- A) a shorter average wavelength.
- B) a lower average frequency.
- C) a lower average energy.
- D) a higher average speed.

ASTRONOMY QUIZ NUMBER 9

1. We can see each other in the classroom right now because we

- (A) emit visible light.
- (B) emit infrared light.
- (C) reflect visible light.
- (D) reflect infrared light.

2. TRUE or FALSE:

A blue star is likely to have a higher surface temperature than a red star.