
Exercise H3: Space Based Astronomy

Student name: _____ Class: _____ Date: _____

Check the box with the correct answer.

Question 1: Which statement best describes the Hubble ultra deep field image?

- a. It shows very young galaxies in the early universe.
- b. Most of the galaxies in this field are too faint to be seen from ground-based telescopes.
- c. This image shows some of the most distant objects detectable in visible light.
- d. All of the above.

Question 2: The central plane of the galaxy is characterized in visible light by:

- a. Expanding gas bubbles from supernovae explosions.
- b. Concentrations of young, hot blue stars.
- c. Obscuring clouds of dark gas and dust.
- d. An abundance of red giant stars.

Question 3: The galactic plane is obscured when observations are made using visible light. What do observations in other wavelengths reveal about this part of the galaxy?

- a. The whole of the galactic plane is an active region in the Milky Way.
- b. The region of the galactic plane is not visible at any wavelength from Earth because of the Zone of Avoidance.
- c. The galactic plane shows minimal activity in all wavelengths except for optical wavelengths.
- d. The core of the galaxy is only active in the X-ray and gamma ray parts of the electromagnetic spectrum.