Exercise H3: Space Based Astronomy

Student name: _____ Class: _____ Date: _____

Check the box with the correct answer.

Question 1: This HST image is remarkable for what reason(s)?

- ☐ **a.** It shows very young galaxies in the early universe.
- ☐ **b.** These galaxies are too faint to be seen from ground-based telescopes.
- ☐ **c.** It shows some of the most distant objects detectable in the visible spectrum.
- ☐ **d.** All of the above.

Question 2: In visible light, the central plane of the galaxy is marked 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: In visible wavelengths the galactic plane is obscured. What do observations in other wavelengths reveal about this part of the galaxy?

- ☐ **a.** The galactic plane is an active region of the Milky Way.
- ☐ **b.** The galactic plane is a non-observable region of the Milky Way.
- ☐ **c.** The galactic plane shows minimal activity in all wavelengths except the optical.
- ☐ **d.** The core of the galaxy is very bright in X-rays.