

Home work - Ch. 7 - Earth & Terrestrial Worlds (Part2)

1. Which of the following geological processes is currently active on Mars?
 - a) volcanism
 - ☒ b) impact cratering
 - c) tectonics
 - d) all of the above
 - e) none of the above
2. Which of the following is *not* evidence that has been found for liquid water on Mars's surface in the past?
 - a) the presence of iron-bearing spheres called "blueberries" that form in water
 - b) layered deposits similar to sedimentary rocks
 - c) ancient riverbeds
 - ☒ d) none of the above (all are evidence of past water)
 - e) all of the above (none are evidence of past water)
3. Which of the following is *not* a factor in making the Earth habitable?
 - a) It has a strong magnetic field.
 - ☒ b) It has a large moon.
 - c) It is the right distance from the Sun for liquid water to exist on its surface.
 - d) It is large enough to remain geologically active.
4. What is the main reason that Venus is warmer than Earth?
 - a) Venus is closer to the Sun than Earth.
 - b) Venus has a higher reflectivity than Earth.
 - c) Venus has a lower reflectivity than Earth.
 - ☒ d) The greenhouse effect is much stronger on Venus than on Earth.
 - e) Human presence on Earth has led to declining temperatures.
5. What is the name of the largest volcano on Mars?
 - a) Amazonia Planitia
 - ☒ b) Olympus Mons
 - c) Tharsis Bulge
 - d) Valles Marineris
 - e) Hellas Basin
6. Why did Mars lose most of its atmosphere?
 - a) Its atmosphere condensed onto the poles and froze into the soil because Mars is farther from the Sun.
 - b) It lost its atmosphere to space after losing its magnetic field.
 - c) Its small size prevented it from holding onto its atmosphere.
 - d) Its interior cooled so volcanic outgassing stopped.
 - ☒ e) All of the above
7. What is the primary constituent of Venus's atmosphere?
 - a) nitrogen (N₂)
 - b) oxygen (O₂)
 - c) water (H₂O)
 - d) carbon monoxide (CO)
 - ☒ e) carbon dioxide (CO₂)
8. What is the source of the oxygen in Earth's atmosphere?
 - a) cometary impacts
 - ☒ b) plants and microorganisms
 - c) volcanic outgassing
 - d) evaporation from oceans
 - e) all of the above
9. Which of the following is *not* a difference between Earth and the other terrestrial worlds important for making Earth habitable?
 - a) Earth has the most stable climate.
 - b) Earth is the only world with liquid water on the surface.
 - c) Earth is the only world with an atmospheric ozone layer.
 - d) Earth is the only world with plate tectonics.
 - ☒ e) None of the above (all are important differences).