

Science I Practice Test

Test A

1. What part of the cell could be compared to an electric generator?
 - a. mitochondria
 - b. nucleus
 - c. ribosome
 - d. endoplasmic reticulum

2. Which of the following is a mistaken idea that living things arise from nonliving sources?
 - a. taxonomy
 - b. evolution
 - c. pasteurization
 - d. spontaneous generation

3. You are instructed by your teacher to obtain 10.0 grams of sodium chloride in order to complete a certain lab. You and your partner accidentally get 15.0 grams of the sodium chloride. Which of the following would be the most correct solution of what to do with the excess sodium chloride?
 - a. place the excess in a plastic bag or beaker for later use
 - b. dispose of the excess as instructed by your teacher
 - c. go ahead and use the 15.0 grams instead of the 10.0 grams
 - d. pour the remainder back into the sodium chloride container

4. Which would be a possible food chain in a desert biome?
 - a. raptor → ants → lizard → desert wildflowers
 - b. ants → raptor → desert wildflowers → lizard
 - c. desert wildflowers → ants → lizard → raptor
 - d. lizard → ants → desert wildflowers → raptor

5. The majority of our nutrient absorption takes place in the _____.
 - a. small intestine
 - b. large intestine
 - c. stomach
 - d. colon

6. What type of relationship is exhibited by a lichen?
 - a. mutualistic
 - b. parasitic
 - c. commensal
 - d. detrimental

Science II**Test A**

1. A collection of gas and cosmic dust in our universe is sometimes described by astronomers as a/n _____.
 - a. nebula
 - b. galaxy
 - c. Black Hole
 - d. asteroid belt
2. You are tasked with determining the volume of an irregular shaped rock about the size of a small marble. What equipment would you need to accomplish this task successfully?
 - a. ruler, beam balance
 - b. beam balance, mortar and pestle
 - c. graduated cylinder, water
 - d. ruler, beaker
3. Convert 325 ml distilled, deionized water to a mass in kilograms.
 - a. 3.25 kg
 - b. .325 kg
 - c. .0325 kg
 - d. 32.5 kg
4. The major damage from the Tōhoku, Japan earthquake in 2011 was due to _____.
 - a. S waves
 - b. initial P waves
 - c. tsunami waves
 - d. L waves
5. A scientist that studies weather patterns in a given area over a long period of time would best be described as a/n:
 - a. seismologist
 - b. meteorologist
 - c. cartographer
 - d. climatologist
6. The dependent variable in the calculation of a bowling ball's average acceleration would be _____.
 - a. the change in time
 - b. the change in velocity
 - c. the direction
 - d. the mass of the bowling ball
7. What do diamonds, graphite, and coal all have in common?
 - a. They all contain carbon.
 - b. They all are organic.
 - c. They all have a tetrahedral crystalline shape.
 - d. They are all igneous in formation.
8. A divergent boundary of the Earth's crust where magma rises to be released occurs here.
 - a. mid-oceanic ridges
 - b. subduction zone
 - c. fault block boundary
 - d. Moho discontinuity
9. The loss of this planet off of planets of the solar system lists due to closer inspection of its orbit and characteristics has many scientists and the general public up in arms over the decision.
 - a. Uranus
 - b. Pluto
 - c. Moons of Jupiter
 - d. None of these
10. This planet has the largest mountain in our solar system, Olympus Mons.
 - a. Jupiter
 - b. Mercury
 - c. Mars
 - d. Uranus