Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Solar House Tour Pre-trip quiz – Total points possible: 40 pts

Download this file, put your name and the course number of your Scholars colloquium class in the top, right corner, then indicate your answer by filling in the blanks or by highlighting the correct answer or writing in the space provided. If you are having trouble finding the answers, review the pre-trip readings. Save the file and upload it to the Pre-trip quiz assignment for your class on ELMS. It is due no later than 1 hour before the trip.

1. The U.S. Department of Energy (DOE) Solar Decathlon is a collegiate competition. By exploring the U.S. DOE Solar Decathlon website, name five of the ten contests that make up the competition. (5 pts.)
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. When was the first U.S. DOE solar decathlon? (3 pts.)
   1. 2000
   2. 1980
   3. 1960
   4. 2002
   5. 2016
8. What is the minimal amount of training that a volunteer for the solar decathlon needs to undertake to volunteer for the event? (3 pts.)
   1. 1-week training course on solar houses
   2. 1-day training course on volunteering
   3. 30-minute YouTube video
   4. 1-hour webinar-based training
9. When do building materials have the most value? (3 pts)
   1. The moment before they are installed in a building.
   2. Ten years after they are installed into a building.
   3. As raw materials.
   4. After the building is demolished and they are disposed of.
10. What does the Buildings as Material Banks (BAMB) project do? What is the agency that started it? (7 pts)
    1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. What characteristic of a product determines if it is safe for the user and the environment, and if it’s reusable or recyclable. (3 pts.)
   1. Its chemistry
   2. Its composition
   3. Its processing
   4. Its treatment
   5. All of the above
2. What is an electrolyzer? (3 pts.)
   1. A device that emits wireless electricity (for example, WiTricity).
   2. A device that uses electricity to break down water into its component hydrogen and oxygen.
   3. A uniformly charged spheroid that has a large range of electrostatic potential.
   4. An advanced solar electric propulsion technology for use in space flight.
3. How many kilowatt hours does Strizki’s house use per day? (3 pts.)
   1. 50 kilowatt-hours
   2. 10 kilowatt-hours
   3. 80 kilowatt-hours
   4. 100 kilowatt-hours
4. Name a benefit and downside of hydrogen fuel cells compared with batteries. (8 pts.)
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. List two questions that you plan to ask the hosts at the house. (2 pts.)
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_