**Environmental Challenges in China Quiz Answers**

1. What are two major air pollutants that engineers are concerned about?
   1. particulate matter 2.5 and ash
   2. **particulate matter 2.5 and carbon dioxide**
   3. ash and carbon monoxide
   4. ash and carbon dioxide
2. What is a negative effect of indoor air pollution?
   1. lung cancer

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* 1. chronic obstructive pulmonary disease
  2. respiratory infections
  3. **all of the above**

1. What are two negative effects of outdoor air pollution?
   1. **global warming and climate change**
   2. climate change and more expensive energy
   3. climate change and people moving to the cities
   4. global warming and use of gasoline
2. Why do engineers design different types of houses in different climates?
   1. because they want different houses to look differently
   2. **because different climates have different types of weather**
   3. because different houses have different prices
   4. because people like different kinds of houses
3. What are the five types of renewable energy?
   1. wind, coal, oil, solar and gas
   2. water, solar, oil, coal and gas
   3. **wind, water, solar, geothermal and biomass**
   4. water, biomass, solar, oil and coal
4. What are some ways that children can save energy?
   1. walk or bike to school
   2. turn off the lights when leaving a room
   3. use energy-saving light-bulbs
   4. **all of the above**
5. What is a device that engineers created to save energy?
   1. solar panels
   2. wind turbines
   3. energy-saving light-bulbs
   4. **all of the above**
6. What are three devices engineers designed to help people in rural China   
   use clean energy?
   1. **biogas digesters, improved cook stoves and solar hot water**
   2. improved cook stoves, cars and bicycles
   3. biogas digesters, solar hot water and cars
   4. cars, bicycles and televisions
7. What are some challenges facing people in rural China?
   1. poverty
   2. access to healthcare
   3. access to education
   4. **all of the above**
8. What does “optimization” mean?
   1. to pick the solution that is the cheapest
   2. to pick the solution that is the fastest
   3. **to consider all the factors involved in a decision and pick the best solution**
   4. to see something through your own eyes
9. In the space below, in complete sentences, please write three things that you have learned about engineering, the environment, China, or how engineers help people:

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**This question is only on the Post-Unit Quiz. Answers will vary.**

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