## **COLUMBUS STATE COMMUNITY COLLEGE**

ESSH 1101 - Introduction to Environmental Science, Safety & Health



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Date: \_\_\_\_\_\_\_

## Quiz 4 – Units 7 & 8 (60 points)

- 1. A basic principle of toxicology is that any synthetic or natural chemical can be harmful if ingested or inhaled in a large enough quantity. (2 points)
  - a. True
- 2. In the United States, the leading cause of preventable death is tobacco use.

a. True False

3. Synthetic chemicals are always more harmful compared to natural chemicals.

a.) True b. False

4. It is difficult to study all of the possible harmful effects caused by interactions of industrial chemicals. Such a study would be too expensive to be realistic even for a subset of several hundred chemicals.

a. True b. False

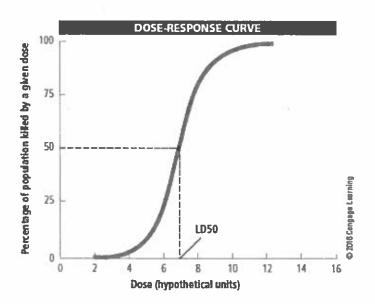
5. 20.Unless people work in chemical industries, they generally are exposed to relatively few chemicals that could be harmful.

a True b False

- 6. What do we call the probability of suffering harm from a hazard?
  - a. Disease
  - b. Economic Loss
  - c. Death
  - d. Injury e. Risk
- 7. Which of the following is a type of chemical hazard?
  - a. Unsafe working Conditions
  - **b** Parasites
  - c. Pollution
  - d. Bacteria
  - e. Fungi

13. Explain the following statement made by the German scientist Paracelsus: "The dose makes the poison." (3 points)

Paracelous is likely referring to the close response curve where perentiate estimate the toxicity of a clumical by determining the effects of carriors doses of the chemical on test organism (subject).



14. On the accompanying graph, explain what the designation LD50 means.

(D50 refers to a chamicals mechan letted dose which is the dose amount that can kill 50% of the animal subject in a lest population.

15. Discuss the specific hazards we face from infectious diseases and exposure from chemicals and make a general statement about how we can reduce these major risks. (3 points)

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23. Which of the following is/are primary pollutants that eventually result in acid
deposition?
a. Volatile organic compounds
b. Methane
Particulates
d. Carbon monoxide
(e.) Sulfur dioxide
24. Photochemical smog is characteristic of urban areas with many vehicles and a climate
that is
a. cool and cloudy
b. cool, dry, and sunny
c. warm and sunny
d. warm, wet, and cloudy
e. cool, wet, and sunny
25. Which statement about emissions trading is false?
<ul> <li>The success of emissions trading programs depends on how low the initial cap is set.</li> </ul>
<ul> <li>b. Sulfur dioxide emissions were reduced by the emissions trading system in the</li> </ul>
United States.
It forces all utilities to reduce the amount of pollution they emit.
Cheating is possible without strict government oversight.
26. What important form of natural capital has allowed human civilization to grow over the
past 10,000 years?
Fossil fuels
b Agriculture
c. Increasingly warmer climate
d.) Relatively stable climate
27. Explain how we can prevent and reduce the emission of greenhouse gases. (3 points)
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