

**TITLE: Chem 1025C Test 2      10-Sept-2007**

Multiple Choice

1. When measuring the Ph of water in the lab, what color was the solution when mixed with the dye?

- a. Colorless
- b. Green
- c. Red
- d. Yellow

ANS: C

Multiple Choice

2. When measuring the Chlorine content of water in the lab, what color was the solution when mixed with the dye?

- a. Colorless
- b. Green
- c. Red
- d. Yellow

ANS: D

Multiple Choice

3. In 1999 NASA lost the Mars Climate Orbiter because

- a. The made a math error
- b. They did not calculate their path to the correct number of significant digits
- c. There was an error in the units used in their calculations
- d. They used the wrong rocket fuel in the last stage engines

ANS: C

Multiple Choice

4. Which device will most accurately measure exactly 100.00 cc of water:

- a. A graduate cylinder
- b. A graduated beaker
- c. A graduated burette
- d. A pipette

ANS: D

Multiple Choice

5. What is a liter

- a. A measurement device
- b. Approximately 1/3 of a gallon
- c. 1 / 1,000 the volume of a cube 1 m on edge
- d. 100 cubic cc's

ANS: C

Multiple Choice

6. Name a unit of Mass

- a. Foot
- b. Meter
- c. Liter
- d. Milligram

ANS: D

Multiple Choice

7. A dime is 1 mm thick. This is an example of

- a. Length
- b. Mass
- c. Volume
- d. None of the above

ANS: A

Multiple Choice

8. A nickel weighs about 5 grams. This is an example of

- a. Length
- b. Mass
- c. Volume
- d. None of the above

ANS: B

Multiple Choice

9. A 12 oz can of soda contains about 360 millileters. This is an example of

- a. Length
- b. Mass
- c. Volume
- d. None of the above

ANS: C

Multiple Choice

10. Chemistry is:

- a. An Art
- b. A Science
- c. A mathematical uncertainty
- d. None of the above

ANS: B

Multiple Choice

11. Chemistry Deals with [ which best describes it ]

- a. Facts
- b. Changes
- c. Little Atoms
- d. Dangerous Substances

ANS: B

Multiple Choice

12. The Scientific Method

- a. Involves running chemical reactions in the lab
- b. Collecting Data
- c. Generating possible explanations
- d. All of the above

ANS: D

Multiple Choice

13. A Theory is

- a. A way to collect data
- b. Formulating a hypothesis
- c. A tested hypotheses
- d. A way to perform experiments

ANS: C

Multiple Choice

14. A Law is the Same as a Theory

- a. True
- b. False

ANS: B

Multiple Choice

15. A Hypothesis is

- a. Studying the composition and properties of matter
- b. A scientific way for collecting data
- c. Possible explanation for an observation
- d. A method for exploring nature

ANS: C

Multiple Choice

16. Chemistry is

- a. Studying the composition and properties of matter
- b. A scientific way for collecting data
- c. Possible explanation for an observation
- d. A method for exploring nature

ANS: A

Multiple Choice

17. In the lab, you attempted to dissolve Ammonium Chloride. It

- a. Did not dissolve
- b. Fizzed and generated bubbles of Hydrogen Gas
- c. Got Warm
- d. Got Cold

ANS: D

Multiple Choice

18. When you placed the clean nail into a Copper Sulfate solution, it

- a. Rusted
- b. Fizzed and generated bubbles of Hydrogen Gas
- c. Turned red / orange from copper plating
- d. Did not react

ANS: C

Multiple Choice

19. If wear sandals, short sleeves or shorts, or forget your lab goggles, you

- a. Will not be allowed to take the next Lab
- b. The instructor will supply you with whatever you need

ANS: A

Multiple Choice

20. On various tests that you take this year, you will be required to fill in the start, stop and elapsed time. Why?

- a. So you know how to read a watch to the correct number of significant digits
- b. So the instructor can determine if the test is too easy
- c. So you will learn to always put in units
- d. None of the above

ANS: C