Name: _____________________________  Toxicology - Chapter 10 Questions

Use your notes and book to respond to the following questions to review for your test.

1. Explain the role of the toxicologists.
2. What is the most widely abused drug?
3. What does alcohol do to the central nervous system?
4. Where is alcohol absorbed into the blood stream after it is imbibed?
5. Name two ways in which alcohol is eliminated from the body.
6. What factors affect the rate of alcohol absorption?
7. What is the relationship between blood-alcohol concentration and brain-alcohol concentration?
8. How does having food in the stomach affect the rate of alcohol absorption?
9. In what types of tissues does alcohol accumulate?
10. Explain the process of oxidation as a way to eliminate alcohol.
11. Where in the body is alcohol oxidized?
12. In what form is alcohol excreted?
13. What is the elimination rate of alcohol from the body?
14. Compare arteries, veins, and capillaries.
15. Trace the pathway of alcohol in the digestive, respiratory and circulatory systems.
16. Draw a simple, labeled diagram of the heart and lungs.
17. How does Henry's Law explain how alcohol divides itself between air and the blood?
18. Which vessels have more alcohol: Veins or arteries?
19. Why is it difficult for a toxicologist to measure the amount of heroin in the blood?
20. What types of fluids/tissues are collected by a toxicologist from the police and medical examiner?
21. What is tolerance?  Synergy?
22. How is a Drug Recognition Expert trained?
23. Explain the drug recognition process.
24. Explain how a breathalyzer works, including the mechanics and chemical reactions.
25. In what blood vessel does the Breathalyzer measure alcohol concentration?
26. What is the main advantage of the IR (Infrared) Breathalyzer?
27. Compare blood analysis in a forensics lab and in a clinical setting.
28. How is blood collected and preserved?
29. Why is it advantageous to collect urine and the vitreous humor from a deceased person?
30. Compare the legal alcohol limits in other countries.
31. Compare the legal alcohol limits for commercial and non-commercial drivers.
32. What does implied consent mean?
33. Why is Schmerber v. California a precedent-setting case?
34. Compare acids, bases and neutral substances.
35. Give examples of acidic and basic drugs.
36. How does Reinsch test work?
37. Why is Carbon Monoxide poisonous
38. How can you use carbon monoxide levels to know if a person died before or after a fire?