

Chapter 7 Checkpoint Questions - [Click Here to open Ch 7](#)

1. What are the differences among a controlled substance, an illicit drug, a prescription drug, and an OTC drug?
2. What is a presumptive test? When can it be useful? What are its limitations?
3. How are illicit drugs classified?
4. A sample of light brown powder found in the kitchen of an illegal drug house gives a blue precipitate with cobalt thiocyanate. What is it? Is there enough evidence to prosecute?
5. A bag of pills was confiscated from a student. They were small, white, and heart-shaped, possibly with a numeral on one side. Should the student be arrested?
6. What are Xanax, Zithromax, and Zocor?
7. Why is Ritalin prescribed? Can it be addictive? What common side effects may occur with its prescribed use? What are some symptoms of Ritalin overdose?
8. Define each of the following abbreviations:
 - PDR
 - MARQ
 - PCP
 - IR
 - GC-MS
 - TLC

Name: _____ Per.: _____ Date: _____

OTC

LSD

NSAID

DEA

ppm

THC

AMU

Co(II)

9. Define the following terms, with examples:

Quantitative

Motrin

Presumptive

Chromatography

Metabolism

Confirmation test

Absorbance

Analyte

Spectrophotometer

Questioned sample

Narcotic

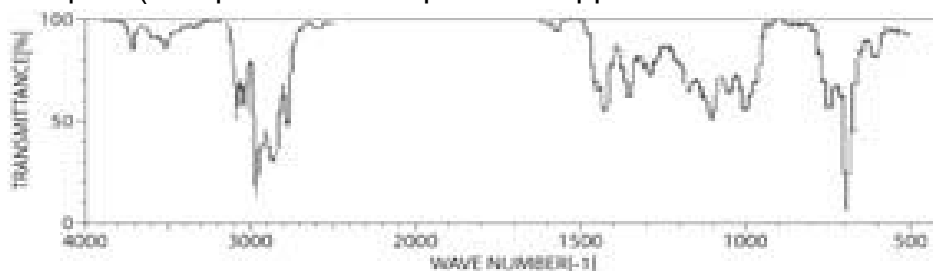
Allergic reaction

Barbiturate

False positive

Name: _____ Per.: _____ Date: _____

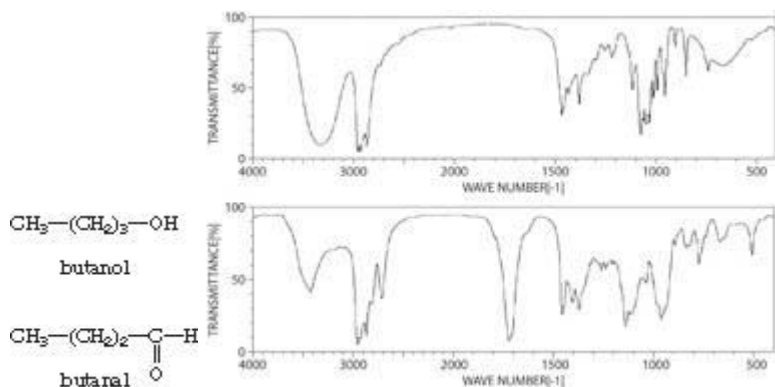
10. You have tested a sample of white powder with cobalt thiocyanate reagent and obtained a blue precipitate. You think you have _____, but you ask the spectroscopy lab for a confirmation.
11. They provide the following spectrum (see book page 200). What is your sample? (Compare with the spectra in Appendix D at the end of this book.)



15. Explain the basis of GC-MS to a jury (generally considered to be, on the average, at seventh- to ninth-grade level), and how ethyl alcohol can be differentiated from propyl alcohol.

16a.** Infrared spectra of butanol (butyl alcohol) and butanal (butylaldehyde) are given below. Which do you think is the aldehyde? Why?

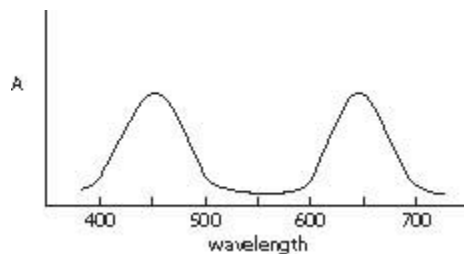
Name: _____ Per.: _____ Date: _____



16. In the “incense” incident described on page 189, about two pounds of material was retrieved from the car. What would be the maximum sentence if the driver were convicted as a first offense? (See Appendix B)

17. If, in the incident at the Detroit airport, the film canister contained 50 grams of cocaine and 10 more grams were found in the man’s camera bag, what could be the sentence if he were convicted as a first offense? (See Appendix C)

18. What color is a solution of a compound that has an absorption spectrum like the one below?



19. If you were asked in court to assess the accuracy of your analytical results, how would you respond?