Week 6 Assignment

- 1. Chemiluminiscence is characterized by the production of short lived photon emitting reaction species during the course of a chemical reaction. This permits the monitoring of
 - a) Excited species which emits an electron
 - b) Excited species which emits a proton
 - c) Excited species which emits a photon
 - d) Excited species which emits a neutron
- 2. Chemiluminiscence is useful to quantify concentrations in the range of 1-100 ppb of pollutants. Therefore it is useful in the determination of
 - a) Chemical species formed in the upper stratosphere.
 - b) Chemical species formed in the troposphere.
 - c) Chemical species formed in the biological laboratory.
 - d) All of these.
- 3. Luminol formation is catalyzed by
 - a) Cobalt
 - b) Copper
 - c) Vanadium
 - d) Titanium
- 4. For concentrating arsenic and phosphorus
 - a) Ferric hydroxide is used as a collector
 - b) Ferrous hydroxide is used as a collector
 - c) Ferric chloride is used as a collector
 - d) Ferrous chloride is used as a collector
- 5. When attempting a chemical recovery for spectrophotometry, 90 95 % of the analyte is collected. This is satisfactory if the sample is in:
 - a) 0.0001 0.001 %
 - b) 0.001 0.01 %
 - c) 0.01 0.1 %
 - d) 0.1-1%
- 6. Sandell sensitivity gives us a method to compare the efficiencies of the determination of individual parameter for
 - a) Method efficiencies
 - b) Molar absorptivities
 - c) Detection limits
 - d) B-1 range
- 7. 8 hydroxy quinoline is a
 - a) Specific reagent
 - b) Selective reagent
 - c) Sensitive reagent
 - d) Organometallic reagent
- 8. Dithizone reacts with a number of transition metal ions by the adjustment of pH and complexing agent. Therefore it can be used to analyse metal ions
 - a) Selectively
 - b) Specifically
 - c) Sensitively
 - d) All of these
- 9. A cook book value is that value which can be obtained under
 - a) Ideal conditions
 - b) Practical conditions
 - c) Optimal conditions

- d) By majority of people
- 10. Characteristic absorption spectra is obtained by
 - a) Examining the blank and sample spectra
 - b) By editing the derivative spectra
 - c) By subtracting the blank spectra from sample spectra at all wavelengths
 - d) By dividing the sample by blank.