REVIEW QUESTIONS

1. Define Industrial Hygiene.
2. Distinguish between toxicity and hazard
3. Define aerosol.
4. Define fume.
5. What is meant by random sampling?
6. What is meant by representative sampling?
7. Describe the NIOSH Sampling Strategy
8. What are the criticisms or limitations of solely using OSHA standards?
9. Why not rely on PPE rather than engineering controls?
10. What is the “Hawethorne Effect”?
11. What is the “vapor hazard index”?
12. Distinguish between primary and secondary measurements.
13. When should the density correction be applied to air measurements?
14. When should the air volume be corrected to standard conditions using the ideal gas law?
15. Describe each of the following and their use:
    a. Frictionless piston meter
    b. Rotameter
    c. Orifice meter
    d. Anemometer
    e. Pitot Tube
16. Describe the bottle technique of preparing static standards
17. Describe the vapor pressure technique for flow dilution systems
18. Describe the following methods and their associated instrumentation. Include where applicable: use, principle of operation, method of sample collection, flow rate, special collection and analysis apparati, calibration, and interferences.
    a. Asbestos fibers in air
    b. MIRAN Infrared Analyzer
    c. Hydrocarbons by charcoal absorption and gas chromatography
    d. Detector tubes (Include construction and storage)
    e. Passive monitors
    f. Combustible gas meter