Test #1

1. 1-page cheat-sheet; also make sure to bring with you the psychrometric Chart.
2. Necessary constants and specific figures in the calculation will be provided.
3. Questions will be a combination of computation and essays.

Test Areas

Chapter 2
Properties of air (pp. 15-18);
Psychrometric Chart (pp. 18-22)
Behavior of air (pp. 22-25)

Chapter 3
TLV definitions (pp. 30-31)
All computational examples
Methane emission models (p. 40-41)
Harmful effects of each gas/contaminants
Gas detection methods (Table 3.10 on p. 54)
Methane drainage methods (pp. 64-74)

Chapter 4
Brownian Motion and Stoke's Law
Physiological effects of mineral dusts ($4.4$)
Factors that determine dust harmfulness ($4.5$)
Explosive dusts ($4.6$)
Threshold limit values ($4.7$)
Aerosol control technology ($4.11$, pp. 113-127)

All lecture materials that are posted on the website.