

※ 考生請注意：本試題不可使用計算機。 請於答案卷(卡)作答，於本試題紙上作答者，不予計分。

1. Please define following terminologies:

(1) Time-weighted-averaged exposure (5%)

(2) Exposure profile (5%)

(3) Dose (5%)

(4) Calibration (5%)

2. Please describe the principles and contents of the chemical control banding (CCB) method currently suggested by Taiwan Occupational Safety and health Administration (OSHA) for the health hazard chemical control purpose. (20%)

3. Please explain how to decide the maximum sampling air volume and minimum sample air volume while using sorbent tubes for gas and vapor samplings? (20%)

4. Please define "breakthrough" for a sorbent tube. What are factors which might affect the "breakthrough" volume of a sorbent tube? (20%)

5. what is "exposure modeling"? Please explain the role of exposure modeling in occupational exposure assessment. (20%)