編號: 301

國立成功大學 108 學年度碩士班招生考試試題

系 所:環境醫學研究所

考試科目:作業環境測定

第1頁,共1頁

考試日期:0224,節次:3

- ※ 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 explain the definition of the followings:
- (1) Active sampling (5%)
- (2) Integrated sampling (5%)
- (3) Systemic error (5%)
- (4) Health risk assessment (5%)
- 2. As an industrial hygienist, please explain how to draw a written environmental monitoring program for your company? (20%)
- 3. A charcoal tube was used to conduct a personal sampling for a worker exposed to toluene (PEL-TWA=100ppm). If the sampling result, CV_A , and CV_P are 95 ppm, 0.03, and 0.04, respectively. Please assess the worker's exposure. (20%)
- 4. Please define the isokinetic, super-isokinetic, and sub-isokinetic sampling. (10%) And please also explain their effects on the aerosol aspiration efficiency of a thin-walled probe. (10%)
- 5. What is "Exposure modeling"? (5%) What is the role of "Exposure modeling" in the "Exposure assessment"? (5%) If the "Saturation pressure model" is used for conducting exposure assessment, what are its limitations? (10%)