

國立成功大學

113學年度碩士班招生考試試題

編 號：271

系 所：環境醫學研究所

科 目：作業環境測定

日 期：0202

節 次：第 3 節

備 註：不可使用計算機

※ 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 each of the following sampling strategies, and the purposes for adopting each sampling strategy in conducting environmental monitoring. (20%)
 - (1) Area (or static) sampling
 - (2) Personal sampling
2. Workers are known being exposed to coal dust. Please design a sampling method for conducting personal sampling, and explain why the sampling method must be adopted. (20%)
3. Please select and explain what type of sorbent tube must be used for conducting environmental monitoring if workers were known being exposed to acetone. (20%)
4. What is a similar exposure group (SEG)? How to establish SEGs for conducting environmental monitoring? And how to examine the feasibility of an established SEG? (20%)
5. Please explain the following aerosol sampling scenarios and their effects on aerosol sampling results (20%):
 - (1) Isokinetic sampling
 - (2) Sub-isokinetic sampling
 - (3) Super-isokinetic sampling