

國立成功大學

111學年度碩士班招生考試試題

編 號： 282

系 所： 環境醫學研究所

科 目： 作業環境測定

日 期： 0220

節 次： 第 3 節

備 註： 不可使用計算機

編號：282

國立成功大學 111 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

考試日期：0220，節次：3

第 1 頁，共 1 頁

※ 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 describe the definition of "systemic errors" and "random errors" in conducting the environmental monitoring, and give two examples for each type of error. (20%)
2. Please describe the sampling strategy for assessing workers' noise exposures. (20%)
3. Please describe the sampling strategy for assessing workers' thermal exposures. (20%)
4. Please describe "the maximum exposure risk group sampling strategy". Please indicate how to calculate the upper and lower 95% confidence limits (UCL and LCL) if the measured air concentration of compound A is found to be B ppm. If the above results show that resultant LCL is greater than the PEL-TWA of compound A, what does it mean to you? (20%)
5. Please describe the definition of "respirable aerosols". Please explain the situations which respirable aerosols should be collected and explain why. (20%)