編號	虎: 3	325	國立成功大學1	03 學年度碩士班	E招生考試試題	共 1 頁,第1頁	
系所組別:環境醫學研究所甲組							
考試科目:作業環境測定 考試日期:0223,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.	Plea	lease briefly describe the four kinds of blank samples and interpret the requirement of analytical level of					
	blank sample. (15%)						
2.	2. Please describe the requirements for the setup of calibration curve. (10%)						
3.	Please define the internal standard and briefly describe its requirement. (10%)						
4.	. What are components should be included in a written exposure assessment program? (15%)						
_							
5.	What is ET (effective temperature)? How to measure ET in the field? What are its limitations? What is CET						
	(corrected effective temperature)? How to measure CET in the field? What are its limitations? (15%)						
6	6. List four factors that will affect the norfermance of courd level mater (SLM)? (100/)						
0.	List four factors that will affect the performance of sound level meter (SLM)? (10%)						
7	7 Please list the advantage and disadvantage of direct reading instruments in air sampling (5%)						
<i>'</i> .	7. I lease list the advantage and disadvantage of direct reading instruments in an sampling. (576)						
8.	8. Table 1 is an example of cascade impactor weight at different stages after sampling $10^6$ L of air sample						
0.	what is the PM10 ( $\mu g/m^3$ ) (7%) and PM2 5 ( $\mu g/m^3$ )? (8%) Where would ultrafine particles be collected?						
	(5%)						
	(提示: PM2.5 可使用内插法求得)						
		Stage number	$d_{so}(um)$	Net mass (mg)	Size range of collected part	icle(um)	
		1	10	4.7	>10		
		2	5	5.5	5-10		
		3	2	9.1	2-5		
		4	1.2	6.2	1.2-2		

0.6-1.2

0-0.6

Table 1: Different stages of a cascade impactor

0.6

1.8

0.3

5

Downstream

filter