		成功大學 103 學年度碩士現	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					
考讀	式科目:工業衛生			考試日期:0223,節次:2	
*	考生請注意:本試題不可依	吏用計算機。 請於答案卷	(卡)作答,於本試題紙上	作答者,不予計分。	
1.		e was found with a xylene (PEL-TWA=100ppm) consumption rate of 106g/h and acetone =50ppm) consumption rate of 56g/h, what is its required ventilation rate (unit: m <sup>3</sup> /min) while			
	using the general exhaust ve your calculations. (20%)				
2.	What are mechanisms, causes and health effects associated with cumulative trauma disorders (CTDs)? (15%)				
3.	Please list 2 major biological hazards for each of the following occupational settings and explain why you propose				
such a nomination, either by the level of health risk or the degree of population impacts. (15%) (a) Textile industry				%)	
	(b) Nursing homes				
(c) Indoor swimming pool					
	n addition, what is the general indoor air standard in Taiwan now for (5%)				
<ul> <li>(d) Airborne fungi?</li> <li>(e) Airborne bacteria?</li> </ul>					
4.	4. To the best of your knowledge, please list 3, among all the biological hazard, which have the more readily				
and effective biomarkers that can be adopted for environmental epidemiology research or ot				ther application. (10%)	
	Biological hazard/agent	Biomarker of exposure	Biomarker of effect		
		· · · · · · · · · · · · · · · · · · ·			
5.	below is a portion of the ventilation duct. A, B, and C are three sampling points in the duct, please rank the				
	wind speed from high to low measured at the three points (6%)? The diameter of the duct at A is 50 cm				
while the diameter of the duct at C is 100 cm, when the measured speed at A is 1 m/s, what is					
	measured at C? (9%)				
			1Ø100 cm		
	rØ50cm				

Please compare the advantages and disadvantages of active and passive sampling in industrial hygiene? (10%)

B C

7. Please list two ionizing and three non-ionizing radiation? (10%)

Å