

系所組別：環境醫學研究所甲組

考試科目：環境衛生

考試日期：0220，節次：2

※ 考生請注意：本試題 可 不可 使用計算機

1. Please draw a diagram to describe the major criteria and salient design of sanitary landfill for disposal of municipal solid waste (12%).
2. Please define the term of “Environmental Inventory” and “Environmental Impact Assessment”? (6%) and briefly describe the five activities in the process of environmental impact assessment. (10%)
3. The incineration becomes a principal method for treatment of municipal solid waste in Taiwan. Please describe the formation mechanisms and control measures of dioxins during the combustion of municipal solid waste. (12%).
4. Among the primary air pollutants in Taiwan, which of them is considered most critical to the concern of public health in Taiwan? (3%) Why? (5%) Which of them is considered most related to the subject of climate change? (3%) Why? (5%)
5. Please give your comments, based on the best of your knowledge, on the most appropriate “biomarker” for assessing the human exposure to the following environmental hazards and briefly explain why (24%)
 - (a) Aspergillus
 - (b) Legionella
 - (c) Hepatitis A virus
 - (d) Lead
 - (e) Di(2-ethylhexyl)phthalate
 - (f) Ultraviolet light
6. The overall climatic events in 2010 has been viewed as “highly fluctuating and variable” in most parts of the world. Has it been attributable to be an phenomenon of “El Nino” or “La Nina”? How is it each defined? (10%)
7. What is “biofuel”? Please introduce the pros and cons of using this type of energy source? (10%)