(株林) 國立中山大學八十七學年度碩博士班招生考試試題科目:環境工程與科學 株/頁第/頁

- Use municipal solid waste as an example to discuss the priorities in waste management alternatives. (20%)
- 2. (1)請繪圖並說明大氣中懸浮微粒之粒徑分佈特徵及其形成機制。 (2)請說明何謂 PM_{2.5}、 PM₁₀ 及 TSP , 又何以 PM_{2.5} 較適合代表空氣品質之好壞? (20%)
- 3. 試列舉說明影響污染物在大氣擴散(或稀釋)之重要氣象因子。 (/5%)
- 試舉出去除或回收管道排氣中揮發性有機污染物(VOCs)之五種方法。 (15%)
- 5. 薄膜積垢種類、原因為何?如何控制? (15%)
- 6. The following questions are related to groundwater hydrology and contamination.
 (1) Calculate the groundwater flow velocity in meter per second for a hydraulic conductivity of 10⁻⁶ m/sec, a hydraulic gradient of 0.02, and an effective porosity of 0.1;
 - (2) Please list five possible sources of groundwater contamination;
 - (3) Please list the major mechanisms that affect contaminants transport in the subsurface;
 - (4) Please itemize the general procedures for contaminated site investigations. (15%)

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