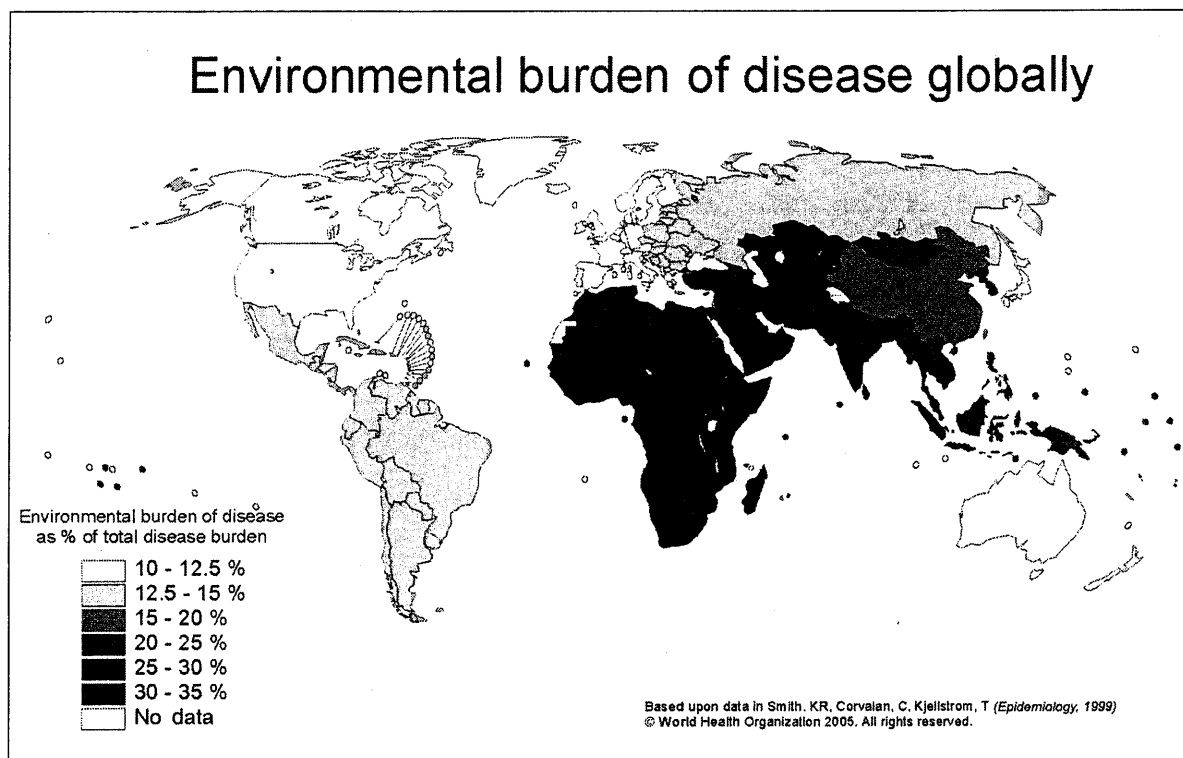


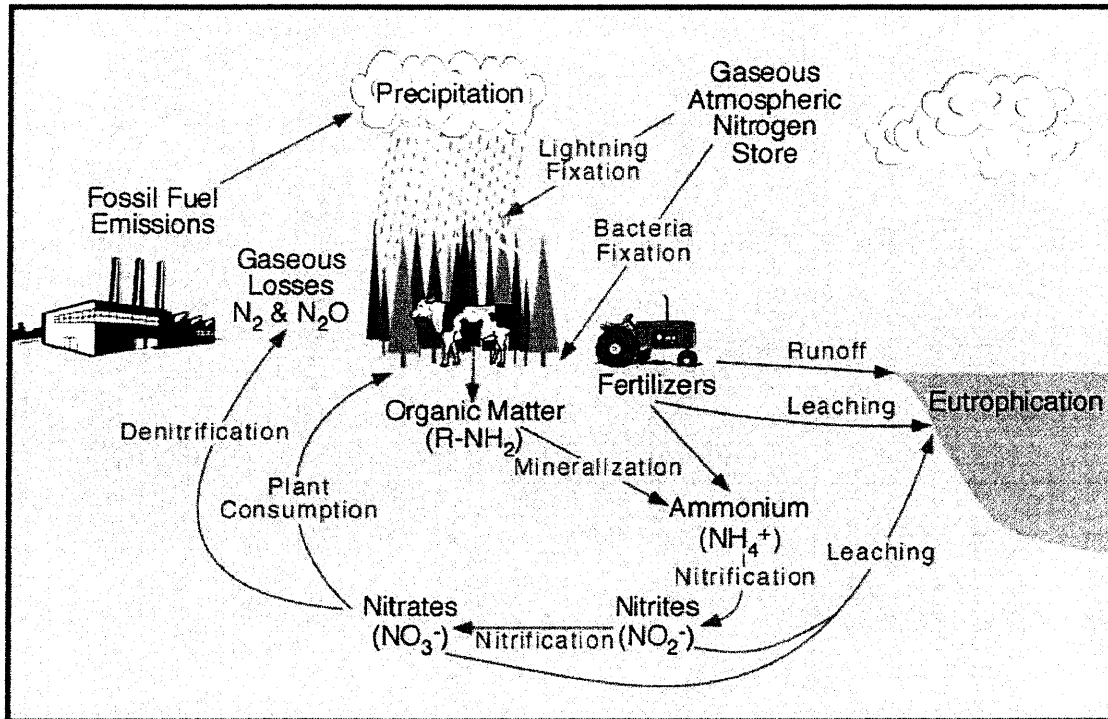
※ 考生請注意：本試題不可使用計算機。請於答案卷(卡)作答，於本試題紙上作答者，不予計分。

1. Please describe the four steps of health risk assessment of toxic chemicals (16%).
2. What are Greenhouse gases? (7%) ; What is the major problem of the climate change for environment, for human adverse health? (8%) ; What can we do for improving the climate change? (5%)
3. Please define the (1) persistent organic pollutants (POPs) (4%), (2) endocrine disrupting chemicals (4%), and (3) endocrine disruptor hypothesis by Theo colborn (6%).
4. Why is the environmental burden of disease as % of total disease burden not the same throughout the world? (10%) List three methods that we can do to help reduce the environmental burden of disease? (6%)



5. 醫院所使用過的針頭針筒屬於何種廢棄物? (5%) 該如何處理? (5%)

6. What is eutrophication? (4%) According to the figure below, please describe the process of eutrophication? (8%)



(Pidwirny, 2006)

7. John inhaled 6 L of air in a minute, assume the particle concentration is constant at 5000 \#/cm^3 , what is the total amount of particles John inhaled in one day? (6%) Name three sources and three sinks of particles? (6%)