

※ 注意：請於答案卷上依序作答，並應註明作答之大題及其題號。

1. 論酸雨 (acid rain) 產生的原因，與對環境造成影響的機制。(10%)
2. 重金屬化合物在水中的溶解度很低，但是污染水中時有高濃度的重金屬被檢測出來，理由何在？(10%)
3. 許多河川，在中下游時遭受污水排入，水中少有魚類，但是到了河口感潮區，魚類數目與種類大增，理由何在？(10%)
4. PCBs (polychlorinated biphenyls) 為何會造成環境污染？(10%)
5. 水庫中磷酸根的濃度過高，將產生水質優養化(eutrophication)，理由何在？(10%)
6. Name the important reservoirs and some of the important pathways within the carbon cycle. (10%)
7. List the three basic characteristics of an ecosystem and define them briefly. (10%)
 - *structure:*
 - *processes:*
 - *succession:*
8. Name four of the seven factors that tend to decrease the diversity of species. (10%)
9. Agriculture has significant effects on the environment at all scales, from local, to regional, to global. List some of the major effects at each of these three scales. (10%)
10. List three reasons why it is useful to preserve endangered species. (10%)