Spring 2001

Attempt all questions. Present your arguments clearly and concisely.

- 1. Briefly define the following terms [5 marks]:
 - a. Sustainable development;
 - b. "The triple bottom line";
 - c. Carrying capacity;
 - d. "Design for Environment";
 - e. "Life-cycle Assessment".
- 2. Present appropriate examples of:
 - a. Positive;
 - b. Negative;
 - c. Unintended

environmental consequences of technological breakthroughs [6 marks].

3. You work for a consumer chemical company that has recently been taken over by a multi-national corporation that has a well-established corporate image as a "green", environmentally friendly organization. Your first task after the takeover is to lead the design team to develop a new, improved version of "Cleano", your (old) company's best-selling detergent. Discuss briefly how you might use the "Design for Environment" formalism to impress your new bosses [9 marks].