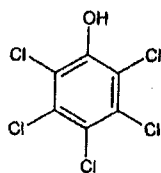
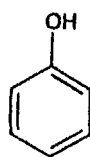


※ 注意：請於答案卷上依序作答，並應註明作答之題號。

1. Solid wastes management is an important environmental issue in Taiwan:
  - a. What is the difference between "solid wastes" and "hazardous solid wastes"? (6%)
  - b. Why "Cradle-to-Grave" policy should be followed for the management of hazardous solid wastes? (5%)
  - c. What are the advantages of "in-site bioremediation" for the clean up of the polluted dumping site? (6%)
2. In order to improve the drinking water quality in Kao-Hsiung metropolitan area, "advanced water treatment processes" were installed in two water treatment plants:
  - a. What is "advanced water treatment processes"? (5%)
  - b. Will this "advanced water treatment processes" solve the household water quality problems in Kao-Hsiung? (6%)
3.
  - a. What is SARS? (5%)
  - b. From environmental health point of view, please comment on SARS prevention. (8%)
4.
  - a. What is risk assessment? (5%)
  - b. What are the uncertainties in risk assessment? (8%)
5. Please choose one answer for each question (3% per question, total 9%):
  - a. The major concern of the microbial safety of drinking water is the presence of (1) airborne microorganisms that might be pathogenic (2) fecal contamination (3) aquatic microorganisms that might be pathogenic (4) soil microbes that might be pathogenic (5) none of the above.
  - b. Which of the following has been implicated in the transmission of cholera? (1) consumption of raw shellfish (2) consumption of raw vegetables (3) drinking of contaminated water (4) all of the above (5) more than one of the above, but not all.
  - c. Which of the following waterborne diseases is caused by an eukaryote? (1) giardiasis (2) typhoid fever (3) cholera (4) legionellosis (5) none of the above.
6.
  - a. What does a water bacteriologist mean by an indicator organism? (5%)
  - b. What properties should an organism have to be a useful indicator? (6%)
7. Please give two reasons about why pentachlorophenol is more resistant to environmental degradation than phenol. (8%)



Pentachlorophenol



Phenol

接背面

※ 注意：請於答案卷上依序作答，並應註明作答之題號。

8. Please choose the most appropriate term from the following twenty six for each question (3% per question, total 18%):

- a. Many persons are worry about if avian influenza will become a \_\_\_\_\_.
- b. Mad-cow disease is thought to be associated with a \_\_\_\_\_.
- c. \_\_\_\_\_ of water is important to block the transmission of waterborne diseases.
- d. Benzene is a known human \_\_\_\_\_ to cause leukemia.
- e. Aquatic creatures are threatened by \_\_\_\_\_.
- f. \_\_\_\_\_ represents bulk movement of pollutants in air and water.

- |                    |                     |                  |                    |
|--------------------|---------------------|------------------|--------------------|
| (A) sclerosis      | (B) fungus          | (C) percolation  | (D) teratogen      |
| (E) eutrophication | (F) zoonosis        | (G) bacterium    | (H) depletion      |
| (I) oncogene       | (J) mineralization  | (K) arthritis    | (L) virus          |
| (M) conservation   | (N) carcinogen      | (O) vibration    | (P) tuberculosis   |
| (Q) prion          | (R) evaporation     | (S) estrogen     | (T) biodegradation |
| (U) encephalitis   | (V) nematode        | (W) disinfection | (X) antigen        |
| (Y) advection      | (Z) desertification |                  |                    |



試題隨卷繳回